

HSE Department

Oil India Limited Duliajan, Dibrugarh, 786602, Assam

Phone: 0374-2800542 Email: safety@oilindia.in

दिनांक/Date: 28.05.2024

संदर्भ सं./Ref. No.: S&E/E/43C-1/588

From	:	Executive Director (HSE & ESG)	
То	:	Deputy Director General of Forests (Central), Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon, Guwahati-781022. (Email: iro.guwahati-mefcc@gov.in, iro.moefcc.ghy@gmail.com)	
Subject	**	Submission of Half-yearly (October 2023 to March 2024) compliance reports of the conditions stipulated in the Environment Clearance (EC) granted to Oil India Limited.	

Sir,

Reference to above subject, please find enclosed herewith the Half-yearly (October 2023 to March 2024) compliance reports of the conditions stipulated in the Environment Clearance (EC) granted to Oil India Limited. List of the EC are tabulated below:

S.No	EC Identification No/File No.	Name of the EC proposal
1.,	F. No. J-11011/413/2008-IA II (I) dated 24.01.2011	OCS Bhogpara.
2.	F. No. J-11011/1251/2007-IA II (I) dated 01.11.2011	Exploratory Drilling of 01 (One) well at Doomdooma-Pengry Area, District Tinsukia, Assam.
3.	F. No. J-11011/682/2008-IA II (I) dated 17.06.2013	Expansion of Gas field Development in Tengakhat-Naharkatia-Jorajan area and Doomdooma Pengry area, Assam by M/s Oil India Ltd.
4.	F. No. J-11011/116/2018-IA II (I) dated 07.01.2020	Onshore Oil & Gas Exploration & Development Drilling and Production in Ningru Oil & Gas Field in Districts Changlang and Namsai for Ningru PML Block (Arunachal Pradesh)
5.	F. No. J-11011/1260/2007-IA II (I) dated 09.04.2020	Onshore Oil & Gas Development Drilling and Production in Mechaki Area covering Mechaki, Mechaki Extension, Baghjan and Tinsukia Extension PMLs on District Tinsukia (Assam).
6.	F. No. J-11011/150/2016- IA II (I) dated 11.05.2020	Extension Drilling & Testing of Hydrocarbons at 7 (seven) Locations under Dibru-Saikhowa National Park Area, North-West of Baghjan PML, District Tinsukia, Assam.
7.	F. No. J-11011/1253/2007-IA II (I) dated 28.12.2020	Onshore Oil & Gas development drilling and production by M/S Oil India Ltd in Dibrugarh district under Dibrugarh, Chabua, Higrijan and Tinsukia PMLs. (Dibrugarh- Bhogpara)
8.	F. No. J-11011/375/2016-IA II (I) dated 28.12.2020	Onshore Oil & Gas Development Drilling and Production (179 wells and 9 Production



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	K %=	Installations) in North Hapjan – Tinsukia –
9.	F. No. J-11011/35/2018-IA II (I)	Dhola area under Tinsukia district, Assam. Onshore Oil & Gas development drilling and
1.0	dated 26.02.2021	production by M/S Oil India Ltd. Located in
	*	Khagorijan Oil & Gas Field in Dibrugarh &
	2	Tinsukia District under Tinsukia PML,
		Tinsukia Extension PML and Chabua PML
10	T 21 11011/106/0016 14 II (T)	District: Dibrugarh, Assam
10.	F. No. J-11011/186/2016-IA II (I)	Onshore Oil & Gas development drilling and
	dated 03.03.2021	production in Borhat-Titlagarh area, Dibrugarh, Sibsagar and Charaideo Districts
		under Sapkaintb, Borhat, Moran Extension
		and Doomdooma PMLs.
11.	EC22A002AS110311	Oil & Gas development drilling and
- 4.40	F. No. J-11011/156/2017-IA II (I)	production (16 exploratory, 73 developmental
	dated 28.11.2022	drilling wells and 9 Production Installations)
		in Moran Area under Dibrugarh, Sibsagar and
_ 11	N.	Charaideo districts, Assam.
12.	EC23A002AS125690	Oil & Gas development drilling and
	F. No. J-11011/1254/2007-IA II (I)	production (68 developmental drilling wells
	dated 13.01.2023	and 9 Production Installations) in Khowang Shalmari Area under Dibrugarh, Sibsagar
		districts, Assam.
13.	EC23A002AS188131	Onshore Oil & Gas development drilling and
	F.No J-11011/1257/2007- IA II (I)	production (167 wells and 7 production
	dated 17.04.2023	Installations) in Tengakhat-Kathaloni-Dikom
		(TKD) under Dibrugarh district, Assam.
14.	EC23A002AS198872	Onshore Oil & Gas development drilling (67
	F. No. J-11011/388/2016-IA II (I)	wells) in Jorajan Area under Dibrugarh,
1.5	dated 31.07.2023	Charaideo and Tinsukia districts, Assam.
15.	EC23A002AS146942 F.No. J-11011/546/2017-IA(I)	Onshore Oil & Gas development drilling and production (294 wells and 2 Production
	dated 20.09.2023	Installations) in Naharkatiya-Deohal-
	uaica 20.09.2023	Bogapani-Nagajan (NDBN) area under
		Dibrugarh & Tinsukia districts, Assam.

This is for your kind information please.

Thanking you.

(Rajendra Singh Garbya)

Executive Director (HSE & ESG)

Nodal Officer (EC, FC, NBWL)

For Resident Chief Executive



HSE Department

Oil India Limited Duliajan, Dibrugarh, 786602, Assam

Phone: 0374-2800542

Email: safety@oilindia.in

Encl: As above

Copy:

1. Director, Monitoring Cell, MoEF, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.

2. Zonal Office, Central Pollution Control Board, "TUM-SIR", Lower Motinagar, Near Fire Brigade Headquarter, Shillong-793014.

3. Chairman, Assam Pollution Control Board, Bamunimaidan, Guwahati-781021, Assam.

4. Chairman, Arunachal Pradesh State Pollution Control Board, Office of the Principal Chief and Secretary (E&F) Conservator of Forests, Govt. of Arunachal Pradesh, Itanagar-791111, Arunachal Pradesh.

- Name of the Project: Onshore Oil and Gas Development Drilling and Production involving Onshore drilling of additional wells, Production facilities and laying of assorted oil & gas flowlines/delivery lines by M/s. OIL INDIA LIMITED in District Tinsukia, Assam.
- Clearance L. No and date: IA-J-11011/375/2016-IA II (I) Dated 28th December, 2020.
- Period of Compliance Report: October 2023 to March 2024.

Sl. No.	EC Condition	Compliance status
1	Project Proponent reported that in Baghjan Well suddenly became very active and has resulted into a blowout at around 10.30 AM 27.05.2020. Consequence upon incident of blowout and subsequence fire, various Govt. Authorities have constituted committees to enquire into the cause of the Blowout. Oil is yet to receive committee's report, except the Report of Oil Industry Safety Directorate (OISD). Hon'ble HC in PIL No. 93/2020 (Gautam Uzir) has directed the Committee constituted by Govt. of Assam and MoPNG as well as OIL India Ltd. To submit their respective reports before the court in sealed cover as the Court was of the opinion that the findings of these Committee's may be overlapping. OIL shall implement recommendations of the Committees.	OIL has implemented the recommendations of the committees constituted post Baghjan blowout such as Bioremediation of the affected area, plantation of 50,000 saplings in the Baghjan #5 plinth using Akira Miyawaki method. Also, OIL is carrying out video surveillance of the Baghjan#5 area using CCTV. Also, OIL will comply with the recommendations of the nine-member committee formed vide NGT order dated 10.03.2023.
2	The Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, as may be applicable to this project.	Agreed
3	The environmental clearance is a subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife. as applicable. Grant of environmental clearance does not necessarily imply that Wildlife Clearance. Grant of environmental clearance does not necessarily imply that wildlife clearance shall be granted to the project and that their proposals for Wildlife Clearance will be considered by the respective authorities on their merits and decision taken.	Complied No drilling activity is carried out within 10 Km from boundary of National Park/ Wildlife Sanctuary
4	The environment clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention And Control of	Consent To Establish (CTE) and Consent To Operate (CTO) were obtained before commencement of drilling/production activities.



3)

	Pollution) Act, 1981 as applicable from time to	
	time, from the State Pollution Control Board,	
	prior to construction & operation of the project.	
5	The company shall comply with all the	Complied
	environmental protection measures and	All the environmental protection
	safeguards proposed in the documents submitted	measures proposed in the EIA - EMP
	to the Ministry. All the recommendations made in	are being implemented.
	the EIA/EMP in respect of environmental	
	management, and risk mitigation measures	*
	relating to the project shall be implemented.	
6	The activities and the action plan proposed by the	Complied
	project proponent to address the public hearing	
	and socio-economic issues in the study area shall	All the commitments made during
	be completed as per the schedule presented before	Public Hearing are being
	the committee and as described in the EMP report	implemented. Details of the CER are
	in letter and spirit. All the commitments made	enclosed as Annexure – I.
	during public hearing shall be satisfactorily	
	implemented.	
7	No pipeline or its part shall be laid in the Forest	Complied.
	land/Protected Area without prior	No pipeline is laid in the Forest land/
	permission/approval from the Competent	National Park without prior approval
	Authority.	of Competent Authority
8	Forest Clearance/Wild Life Clearance/ ESZ	Complied.
	Clearance shall be obtained from the concerned	Forest Clearance/ Wildlife Clearance
	regulatory authority, if applicable to the project.	will be obtained if drilling is carried
	Drilling in the forest area and area beneath it shall	out in the forest land or 10 Km from
	not be carried out without prior permission.	the boundary of National Park/
	FF	Wildlife Sanctuary.
9	As proposed by the project proponent, Zero	Complied.
	Liquid Discharged shall be ensured and no	Zero Liquid Discharge will be
	waste/treated water shall be discharged to any	maintained at the drilling locations.
	surface water body, sea and/or on land. Mobile	Mobile ETP coupled with RO is
	ETP along with RO plant shall be installed to	installed to treat the wastewater.
	treat the wastewater.	
10	During exploration, production, storage and	Complied
	handling, the fugitive emissions of methane, if	
	any, shall be monitored using Infra-red camera/	Explosimeter are used to detect
	appropriate technology.	fugitive emissions of Methane (if
	11 1	any).
11	The project proponent also to ensure	Will be Complied
	trapping/storing of the CO ₂ generated, if any,	CO ₂ generated (if any) will be
	using the process and handling.	trapped/stored.
12		
	Anntoach toad shall be made nucca to minimize	Complied
12	Approach road shall be made pucca to minimize	Complied Approach road to the drilling
12	generation of suspended dust.	Approach road to the drilling
12		Approach road to the drilling locations and Production Installations
12		Approach road to the drilling locations and Production Installations are made pucca to minimize
	generation of suspended dust.	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust.
13	generation of suspended dust. The company shall make all arrangements for	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust. Complied
	generation of suspended dust. The company shall make all arrangements for control of noise from the drilling activity.	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust. Complied Regular maintenance of equipment/
	generation of suspended dust. The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosures shall be provided for the DG	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust. Complied Regular maintenance of equipment/ machinery is being carried out to
	generation of suspended dust. The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosures shall be provided for the DG sets along with the adequate stack height as per	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust. Complied Regular maintenance of equipment/ machinery is being carried out to minimize noise generation. DG sets
	generation of suspended dust. The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosures shall be provided for the DG	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust. Complied Regular maintenance of equipment/machinery is being carried out to minimize noise generation. DG sets are provided with acoustic enclosures
	generation of suspended dust. The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosures shall be provided for the DG sets along with the adequate stack height as per	Approach road to the drilling locations and Production Installations are made pucca to minimize generation of suspended dust. Complied Regular maintenance of equipment/ machinery is being carried out to minimize noise generation. DG sets



14	Total fresh water requirement shall not exceed 40	Complied
	cum/day/well proposed to be met through tanks. Mobile ETP shall be installed to treat the waste water and efforts shall be made for gradual reduction in daily intake of water (to reduce fresh water foot print) by suitable mechanism or by putting RO facility in place coupled with onsite mobile ETP. Size of the waste shall be equal to the hole volume+ volume of drill cutting and volume of discarded mud if any. Two feet free board may be left to accommodate rain water. There shall be separate storm water channel and rain water shall not be allowed to mix with waste water. Alternatively, if possible pit less drilling be practiced instead of above.	Total freshwater water requirement is within the permitted limit. Mobile ETP coupled with RO is installed to treat effluent generated from drilling location. Storm water is not allowed to mix with wastewater. Test report of the ETP treated effluent from Loc. BHC is enclosed as Annexure – II .
15	The company shall construct the garland drain to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated.	Complied Garland drains are constructed around the drilling location to prevent runoff any oil containing waste into the nearby water bodies. Separate drainage system is created for oil contaminated and non-oil contaminated.
16	Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall comply with the guidelines for disposal of soiled waste; drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30th August, 2005.	Complied Drill cuttings separated from drilling fluid are adequately washed and disposed in HDPE lined pit. No effluent/ drilling mud is discharged/disposed off into nearby surface water bodies. OIL has sent the drilling cuttings samples, drilling fluid samples to CSIR – NEIST, Jorhat for analysis, once the reports are received, they will be submitted to Sub-RO (MoEF&CC). Guwahati. Toxicity test report of waste drilling mud is enclosed as Annexure – III.
17	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recycles waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	Complied In case of Oil spillage/ contamination, action will be taken as per the Oil spill contingency plan prepared by OIL. Recyclable waste (oily sludge) and spent oil is sent to Pollution Control Board, Assam authorized recyclers.
18	The proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	Complied Fixed firefighting system is installed at drilling locations and in case of any oil spillage, necessary remediation actions will be taken as per the Oil Spill Contingency Plan.
19	The project proponent shall develop a contingency plan for H ₂ S release including all	Complied Contingency Plan for H ₂ S release is



	necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	in place. OIL never encountered H ₂ S and no such evidence exists in our field of operation. However, multigas detector and Self Containing Breathing Apparatus (SCBA) will be kept available to meet the emergency situation, if any.
20	Blowout Preventer system shall be installed to prevent well blowout during drilling operations.	Complied Blow Out Preventer (BOP) system is installed to prevent blowouts during drilling operations.
21	On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment safety angle. In case of hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH/Indian Petroleum Regulations.	Will be Complied On completion of the drilling activity, plugging of abandoned wells will be carried out as per the OIL's Well Abandonment, Site Restoration and Reclamation policy.
22	No lead acid batteries shall be utilized in the project/site.	Will be Complied No lead acid batteries are utilized at the drilling location.
23	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and rules. All workers & employees shall be provided with required safety kits/mask for personal protection.	Complied Occupational Health Surveillance of workers engaged in drilling operation is being carried out on regular basis. All workers & employees engaged in drilling operation will be provided with Personal Protective Equipment (PPE). Records of the IME & PME are enclosed as Annexure – IV.
24	Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.	Will be complied. OIL has sent the drilling cuttings samples to CSIR – NEIST, Jorhat for analysis. Once the reports are received, they will be submitted to Sub-RO (MoEF&CC). Guwahati.
25	The project proponent shall prepare operating manual in respect of all activities, which would cover all Safety & Environment related issues and measures to be taken for protection. One set of environment manual shall be made available at the drilling site/project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.	Complied SOPs for all the operations covering safety and environment related issues are prepared. OIL has prepared Environmental manual which will be made available at the drilling location. Copy of the same is enclosed Annexure – B. Also, all the environmental monitoring reports related to ambient air quality, Stack Gas monitoring, ETP effluent, Noise level will be maintained at the drilling location.

General Conditions:



Sl. No.	EC Condition	Compliance status
1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of Ministry of Environment, Forest and Climate Change/ SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequately of conditions imposed and to add additional environmental protection measures required, if any.	Complied. No further expansion or modification other than mentioned in the EIA Notification, 2006 and its amendments, will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Complied. LED lights are utilized for lighting purpose in drilling locations
3	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986Rules. 1989 viz. 75 dBA (day time) and 70 dBA (Night time)	Complied. Noise level at the drilling locations is kept within the permissible limits by providing acoustic enclosures around the DG sets.
4	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied. Details of the CER expenditure incurred by OIL is enclosed as Annexure – I.
5	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	
6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	ř
7	The project proponent shall also submit six monthly reports on the status of compliance of the	



	stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	October 2022 to March 2023 was submitted to IRO - Guwahati, Zonal Office CPCB, Shillong and, Chairman - Pollution Control Board Assam vide L.No. S&E/E/43C-1/561 dated 29.05.2023. Also, copy of the EC and Six-monthly compliance report are uploaded to OIL website under the link https://www.oil-india.com/Environmental.aspx
8	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF &CC by e-mail.	Complied Environment Statement (Form – V) for the F.Y. 2022-23 was submitted to Pollution Control Board, Assam vide No. S&E/E/21(B)/940 dated 20.09.2023. Copy of the same is enclosed as Annexure – C .
9	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Advertisement regarding grant of EC was published in two newspapers i.e. Dainik Janambhumi and The Assam Tribune dated 01.01.2021. Copy of the advertisement enclosed as Annexure – VI.
10	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Will be complied.
11	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court. Hon'ble NGT any other Court of Law, if any, as may be applicable to this project.	Agreed.



Annexure - I

CER expenditure in Crores during F.Y. 2020-21 to F.Y. 2023-24								
District	Health Care	Education	Plantation	Skill development of women	Industrial Training for students	Sports & Cultural events	Social Development/Infrastructure (Drinking Water, Toilets, Road repair, Flood Protection/Erosion control etc.,)	Total
Tinsukia (Assam)	11.99	15.32	9.38	4.14	3.03	1.80	49.28	94.94







Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/ARDS/23-24/V-01/WW-03/01

Date

: 16/03/2024

Order No.: Telecon

Date

Report Issued To: ADITI R & D SERVICES

Nilesh Buisness Complex, A. T. Road, Digboi, Assam

TEST RESULTS

Sample Ref. No.: ARDS/2024/V-01/0703/01

Sample Source: Rig V#1/BHC, Makum

Sample Type: ETP Treated Water (RO)

Collected On : 07-03-2024

Received On : 07-03-2024

Collected By: ETP Supervisor, ARDS

Sl. No.	Parameters	Results	Limit [G.S.R. 176(E), 02.04.1996]
24	Colour	Colourless	Colourless
25	Odour	Odourless	Odourless
26	pH value	7.25	5.5 - 9.0
27	Temperature, °C	25.6	40 °C
28	TSS, mg/l	4.4	100
29	BOD, mg/l	2	30
30	COD, mg/l	27	100
31	Chlorides (as Cl), mg/l	5.3	600
32	Sulfates (as SO ₄), mg/l	5	1000
33	TDS, mg/l	66	2100
34	Sodium, (%)	2.4	60
35	Oil & Grease, mg/l	<4.0	10
36	Phenolic Compounds as C ₆ H ₅ OH, mg/l	<0.001	1.2
37	Cyanides , mg/l	<0.001	0.2
38	Fluorides (as F), mg/l	<0.1	1.5
39	Sulfide (as S), mg/l	<0.01	2.0
40	Chromium (Cr · 6), mg/l	<0.001	0.1
41	Chromium (Total) , mg/l	<0.001	1.0
42	Copper, mg/l	<0.001	0.2
43	Lead, mg/l	<0.001	0.1
44	Mercury, mg/l	<0.001	0.01
45	Nickel, mg/l	<0.001	3.0
46	Zinc, mg/l	<0.01	2.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

- 2. Results refer only to the particular parameters tested.
- 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, LO.C.L (AOD) New Market, Digboi 786171, Assam.

CSIR-NORTH EAST INSTITUTE OF SCIENCE AND TECHNOLOGY

(Formerly Regional Research Laboratory)
(Council of Scientific & Industrial Research)
JORHAT – 785 006, ASSAM, INDIA

Phone: 0376-2371284/2370012(O) +919706633281 (M) \3\1

EPABX: 2370117, 2370121, 2370139 Gram: RESEARCH Fax 0376-2370011 E mail: manashjyoti@neist.res.in Website: www.neist.res.in SURVICE S A STORE S A STOR

सी एस आई आर-उत्तर पूर्व विज्ञान तथा प्रोघोगिकी संस्थान (पूर्व क्षेत्रीय अनुसंधान प्रयोगशाला) Annexure - III (वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद) जोरहाट - 785006 आसाम, भारत

फोन : 0376-2371284/2370012 (O) +919706633281 (M)

इपीएबीक्स : 0376-2370117/2370121/2370139

ग्राम ः रिसर्च, फैक्स : 0376 2370011 ई.मेल : manashjyoti@neist.res.in वेबसाईट : www.neist.res.in

From: The Director

No. QSP/MgS/01/Testing/2023

Date: 04.12.2023

To

Syamanta Gogoi, GM-Chemical (HoD)

Oil India Limited, P.O.: Duliajan, Dist: Dibrugarh, Pin: 786602, Assam

Sub: Chemical analysis of Barite sample.

Ref: Your letter no. Chem: 02/10(h)/SG/2023 dated 05.09.2023

For the sample received on 08.09.2023.

Sir,

With reference to the above, please find enclosed herewith the test report for your needful. For your kind information please note that the report(s) are not to be used for any legal purpose and shall not be produced in any court of law to any dispute whatsoever.

The testing report shall not be utilized for any sales promotion or advertisement. We would be happy if you could send your feedback in the enclosed "customer satisfaction" format so that we can serve you better.

Thanking you.

Yours faithfully

Head. Research Planning and Business Development Division

Encl: as above

Copy to: HoD/GL, Analytical Chemistry Group, Materials Science and Technology Division

Connecting Science & Technology for a Brighter Tomorrow उज्जान भविष्य के लिए विज्ञान एवं औद्योगिकी का नमन्वय हम हिन्दी में किये गये पत्राचार का स्वागत करते हैं।

No	7.6.4°.	Date
To The Director CSIR-North East Institute Jorhat-785006 Assam, India	e of Science & Technolo	pgy,
Sub: CSE feedb (Chemical	ack for Testing & Analys analysis of Barite sampl	sis (e)
Kindly refer to your leabove subject.	etter No. QSP/MgS/01/T	esting/2023, dated 04.12.2023 on the
•	find our comments a	s follows with the tick mark in the
(1) Time taken for testing	As Scheduled	Overdue
(2) Procedures for depositing samples	Adequate	Lengthy
(3) Co-operation of the staff members	Friendly	Indifferent
(4) Will you utilize our Services for testing again?	Yes	Probably
Thanking you,		ä
		Yours faithfully,
		Signature:
		Name:
		Address:
		Contact details:





CSIR-NORTH-EAST INSTITUTE OF SCIENCE & TECHNOLOGY JORHAT – 785 006, ASSAM

TEST REPORT

Report No.: CSIR-NEIST-Jorhat/QSP/MR/20/AnC/TR-3588(A)/2023 (No. of Pages: 03)

MEMORANDUM

This Test Report is issued by CSIR-North-East Institute of Science & Technology, Jorhat, Assam, India, a National Laboratory under CSIR India. This Report refers only to the particular item submitted for test.

This Report if reproduced for any purpose, commercial or otherwise, should be reproduced in full. The reproduction of a part or an abstract thereof, has to be specifically approved from Director, CSIR-North-East Institute of Science & Technology, Jorhat.

The results reported in the Test Report are valid at the time of and under the stated conditions of measurement.





CSIR-NORTH-EAST INSTITUTE OF SCIENCE & TECHNOLOGY JORHAT - 785 006, ASSAM

Name of the Division: Analytical Chemistry Group, MSTD	Report No. CS1R-NEIST-Jorhat/QSP/MR 20/AnC/TR- 3588(A)/2023		
TEST REPORT OF Barite (2 nos.)	DATE 29/11/2023	PAGE I of 3	

INDEX

CONTENTS

1. SCOPE

: Chemical Analysis of Barite Powder

Supplied by: S. Gogoi

GM-Chemical (HoD) OIL INDIA Ltd. Duliajan

REFERENCE

: Letter Ref. No.: Chem: 02/10(h)/SG/2023

Dated: 05.09.2023

2. TEST RESULTS

: Enclosed.

3. CONCLUSION

TEST CONDUCTED BY	CHECKED BY	APPROVED BY
29/11/23	Saiking whers	A deliver s
Dr. Ankana Phukan	Dr. P. J. Saikia	Dr. A. M. Das
(Sr. Tech. Officer)	(GL. Analytical Chemistry Group, MSTD)	(Chairman, Testing Report Committee

Released By

Signature & Date





CSIR-NORTH-EAST INSTITUTE OF SCIENCE & TECHNOLOGY JORHAT - 785 006, ASSAM

Name of the Division: Analytical Chemistry Group, MSTI	Report No. CSIR-NEIST-Jorhat/QSP/MR/20/AnC/TR-3588(A) /2023			
TEST REPORT OF Barite (2 nos.)	DATE PAGE 29/11/2023 2 of 3			
SCOPE SCOPE				
1.1 Service/Job Register No. & Date of Receip	pt : 1623/2023: 05/09/2023			
1.2 Requested by (Name & Address of the Agency/ Client)	S. Gogoi GM-Chemical (HOD) OIL INDIA Ltd. Duliajan			
1.3 Description of the Test	: Chemical analysis.			
1.4 Sample Identification	Barite sample.			
1.5 Environmental Conditions	: Temperature : Room temperature Humidity :			
1.6.1 Test Method	: Flame, Hydride technique in AAS			
1.6.2 Reference Standard & Year of Publication	n ; NIL			
1.6.3 Any other Standard	i NIL.			
1.6.4 Any other Method	; NIL			
Equipment Used	Basic Accuracy			
Equipment Name : (a) AAS Zeenit	700P			
Make : Analytic Jen	na			
Model : 700 P				
Calibration Due on Auto Calibrate	red.			
Traceable to Analytical La	ah			
1.8 Location of Test	: Analytical Chemistry Group, MSTD			

29/11/23 Dr. Ankana Phukan (Sr. Tech. Officer)

TEST CONDUCTED BY

Dr. P. J. Saka (GL. Analytical Chemistry Group, MSTD)

CHECKED BY

Dr. A. M. Das (Chairman, Testing Report Committee)

APPROVED BY





CSIR-NORTH-EAST INSTITUTE OF SCIENCE & TECHNOLOGY JORHAT – 785 006, ASSAM

Name of the Division: Analytical Chemistry Group, MSTD	Report No. CSIR-NEIST-Jorhat/QSP/MR/20/AnC/TR- 3588		(A)/2023	
	DATE		PAGE	
TEST REPORT OF Barite (2 nos.)	29/11/2023	3	of	3

2. **RESULT**

SL. No.	Sample name (barite) (Source/Supplier)	Hg (μg/gm)	Cd (mg/gm)
1	M/S Gimpex Pvt. Ltd	0.03	BDL
2	M/S Ambika Mineral	0.07	BDL

BDL: Below detection limit, <0.01 mg/gm

TEST CONDUCTED BY	CHECKED BY	APPROVED BY
. Dalugena	Phitia	Latiner?
29/11/23 Dr. Ankana Phukan	Dr. P. Zalihans	Dr. A. M. Das
(Sr. Tech. Officer)	(GL, Analytical Chemistry Group, MSTD)	(Chairman, Testing Report Committee)

bi

Annexure - IV গ্ৰীনটেক্ এনভাইৰনমেন্টল ইঞ্জিনিয়াৰ এণ্ড কন্সালটেন্টছ্ GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

**

House No-11, Champaknagar, Narayan Path. Bhetapara, Guwahati-781028, www.greentecheec.in Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentecheec.in

TC-5991

TEST REPORT

GEEC/FM/450A

ULR Number: TC5991	2400000018F		GEEC/FM/450
Report No:GEEC/FL/2	3/TOX/2024/01/06	Date:	29/01/2024
Name of the Industry: OIL INDIA Ltd.		Lab ID	GEEC/TT/2024/01/06
Address:	Oil India Ltd.	Date of Sampling/Collection:	09/01/2024
	Duliajan District: Dibrugarh,	Date of Receipt in Duliajan:	10/01/2024
	State : Assam	Date of Receipt in Lab:	11/01/2024
Rig VFD-1		Test Start Date:	16/01/2024
Location:	внс	Test End Date:	20/01/2024
	DRILL FLU	JID QUALITY FOR TOXICITY	
	S	SAMPLING RESULT	
Depth	2928 m	Mud Weight (MW,pcf)	72
Mud Type	HPWBM	MFV sec	55
Dose	Sample Concentration	Mortality (In%)	Test Method
11_	Control sample	0	
2 .	5000 mg/L	0	
3	10000 mg/L	20	
4	20000 mg/L	30	IS 6582 (Part 2)
5	30500 mg/L	40	Bioassay using Zebra Fish
6	40000 mg/L	50	
7	50000 mg/L	50	IX.

Sample Drawn By : Client

Remarks: Limit for Toxicity of Drill Fluid 96 Hrs LC 50 > 30000 mg/l by fish toxicity

Checked by:

Blahon

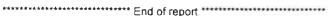
Dr. Belinda Lahon Quality Manager



Reviewed by:

Pranjal Buragohain Authorised Signatory

^{*} The test report cannot be used as evidence in the court of law without prior writtten approval of the laboratory





^{*} The results relate only to the item tested

^{*} The test report shall not be produced except in full, without written approval of the laboratory.



CHEMICAL DEPARTMENT

दुलियाजान ७८६ ६०२ DULIAJAN 786 602

Dist. Dibruarh, Assam, India Phone: 0374-2800439 (O)

Fax: 0374-2801680 E-mail: chemical@oilindia.in

Date: 08.01.2024

Ref. No: Chem: 01/10(h)/KKD/2024

DIRECTOR, NORTH EAST INSTITUTE OF SCIENCE & TECHNOLOGY JORHAT-785006

Attention: Head-RP&BD, NEIST, Jorhat

Sub: Samples of Drill Cutting, Drilling Mud & Pit Water for analysis under

Contract No: 6118548 (New)

Dear Sir,

Please refer to our contract No. 6118548 for hiring the services for analysis of Drill cuttings, Drilling mud and other drilling wastes and Barites Powder along with testing of Sodium Formate samples. In this connection, enclosed please find following three types of samples for your necessary analysis as per Schedule 2 of Hazardous Waste (Management and Handling) Rules, 1989 and forward the test results to GM-Chemical (HoD) within 60-days of receipt of sample.

Sample details:

SI No	Sample Type	Quantity	Analysis for		
1	Drill cuttings Sample	14 (Fourteen only)	Analysis of Mercury & oil Content in drill cuttings along with detail testing as per schedule 2 of Hazardous waste Rule, 1989.		
2	Pit Water Sample	14 (Fourteen only)	Analysis of Mercury in pit water sample.		
3	Drilling Fluid Samples	14 (Fourteen only)	Detailed testing of all parameters as per schedule 2 of Hazardous waste Rule, 1989.		

The details of samples of various wells / sources are furnished in the attached sheets for your information please. You are also requested to provide individual analysis report for each sample to comply new guidelines issued by PCBA & MOEF.

Thanking you,

Yours' faithfully, OIL INDIA LIMITED

(KRISHNA KANTA DAS)

GM-CHEMICAL (HoD)

OIL INDIA LIMITED, DULIAJAN

Encl. Annexure: I- III

S Assam Ind

Assam India

Oil India Limited - Conquering Newer Horizons

2



CHEMICAL DEPARTMENT

दुलियाजान ७८६ ६०२ **DULIAJAN 786 602**

Dist. Dibruarh, Assam, India Phone: 0374-2800439 (O)

Fax : 0374-2801680 E-mail: chemical@oilindia.in

Date: 08.01.2024

Ref. No: Chem: 01/10(h)/KKD/2024

DIRECTOR. NORTH EAST INSTITUTE OF SCIENCE & TECHNOLOGY JORHAT-785006

Attention: Head-RP&BD, NEIST, Jorhat

Sub: Samples of Barites Powder and Sodium Formate for analysis under contract No: 6118548 (New)

Dear Sir,

Please refer to our contract No. 6118548 for hiring the services for analysis of Drill cuttings Drilling mud and other drilling wastes and Barites Powder along with testing of Sodium Formate samples. In this connection enclosed please find the following Barytes and Sodium Format samples for necessary analysis and forward the test results to GM-Chemical (HoD) within 60days of receipt of sample.

Sample details:

SI No	Sample Type	Quantity	Analysis for
1	Barites Powder	02 (Two only)	Analysis of Mercury & Cadmium
2	Sodium Formate		

The details of sample sources are furnished in the attached sheets for your information please. You are also requested to provide individual analysis report for each sample to comply new guidelines issued by PCBA & MOEF.

Thanking you,

Yours' faithfully, OIL INDIA LIMITED

(KRISHNA KANTA DAS) GM-CHEMICAL (HoD)

OIL INDIA LIMITED, DULIAJAN

Encl. Annexure: IV- V

mexi mexi Jorhal 7850

Oil India Limited - Conquering Newer Horizons

FORM - O [See Rules 29 - F (2) and 29 - L]

Report of Medical Examination under Rule 29 - B

(To be issued in Triplicate)**

Certificate No 2488 /17

	100	
in 1777.775"	tified that Shri/Shrimoti* employed as 131ka.sh. (Chewical mine, Form D, No. has been	en examined for an initial/neriodical* modical
	Therefore appears to be	vears of age.
The though	ings of the examining authority are given in the	attached choot It is sensitived that
Shri/Shrimo	notion Bileach Cougas	and the second of the second o
*(a)	is medically fit for any employment in mines.	
*(b)		<i>8</i> (
(-)		lly unfit for
	(i) any employment in mine; or'	20
	(ii) any employment below ground; or	
	(iii) any employment or work	
*(c)		and should get this disability
cured /cont	ntrolled and should be again examined within a perior of	and should get and disability
	will apear for re-examination with the result of test of	
*and the o	opinion of	
Ha /Chat a	opinion of	
ne /sne m	may be permitted / not permitted * to carry on his duties durin	g this period.
Space for	or affixing	
Passpo	port size	
Photograp	1	
candi	didate	Dipjyst Der
		Signature of Examining Authority
		Dr. S. BASHYA General Manager (MS) Occupational Health Section Cil India Hosp til P.O. L. Janne 19662 Det Contagn (Asron)
Place :	210, Duliajan N	lame and Designation of Block Letter

Delete whatever not applicable

One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.



Name and Designation of ulock Letter

Report of the Examining Authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure / control of disability)

		Annexure to certificate No.	2	48811	- <u>/</u> _
	of me	edical examination on O7 021	a .	488 1.	.Tas a result
		edical examination on 0 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		*********	100
^		· Mark		2	WALS .
17	et i	tch mark no	Q1	, O (90901
`	1	Control of the contro	KE. ey	e . Lett thum	ib impression of the candidate
	י י	General development	. (0	Good / Fafr / Poor
	2	Height cms	0	Ka.	
	3	General development Height	- 6	020	coa soup o + v
	4	-)03			3.
		i) Visual acuity - distant vision (with o	C series		
		- William	without glasses		
					Right Eye 6/6
		ii) Any organic disease of eyes			Left Eye 6/6
		"'/ Night blindness	21		
		IV) Squint / N	ie		
	-	("to be tested in special cases)			
	5.	cais.			
		i) Hearing Right Ear WNLCU ii) Any organic disease NC Respiratory System	no cally	1	
	•	ii) Any organic disease		Left Earl	NE Chis cally 1
	6.	Respiratory System	0		(1)
		Chest measurement: Unest U	in inlin		Jate U
		After full inspiration	no secon	Lear	CG:
	-	Respiratory System: Chest measurement: Cone of the full inspiration ii) After full expiration Circulatory System: Cone of the full expiration		cms. c	XR. N. At. d.
	7.	Circulatory System: WNL	**********************	cms.	IS ALA
		ii) After Full expiration Circulatory System: WNL Blood Pressure 140 86 mm Pulse 76 mm	1 110	.9	S ADdom No. 8542
		ruise / E 100 Va		0	1
	0.	Abdomen	\bigcirc	- 2	plenomerly.
		Tenderness N			
		Liver > NP			N TO
		Spleen			
		Tumour N.Q			
	9	Nervous System: WNL.			TO (XOO)-
		History of fits or epilepsy NO			TC : CO Cmm
		Paralysis N	S. BILIRUBIN	O'S mold	PLATELET :216 Cmm
		Mental Health WNL	SGOT	: 44. U/L	book Ill of Co
	10. [Locomotor System WNL		22 PU/L.	Hb 12'4gm/dl.
		Skin WNL	SGPT	82 U/L	FBS 106mg/dl.
		Hernia > N Q	SAP	.228	nnne 119
		., 51.000,0	PROTEIN	7.2 G/dl.	PPBS 119mg/dt.
	14. /	Any other abnormality 1 N Q		G/dl.	UREA 22 gm/dl.
		Jrine:	ALBUMIN	40 G/dl.	CREATINE: 1:0am/dl
		Reaction	GLOBULIN	3·2_G/d1.	CHOLESTERCE : 156 gm/dl.
	<i>F</i>	Albumin > - heic	URIC ACID		TRIGLYCERIUS : 150 gm/di
	16	Sugar /		:mg/al.	
	16. 5	Skiagram of chest	SYGOL REME	· VER CELLED	HDL : S8 gm tel
	17: A	Any other "C" test considered necessary I	b . at	authorit:	LDL :C7g.rsol
	18. A	Any opinion of specialist considered nece	ssary.	аииюпту	
			7.		

Place : 15 3 N

Chemical.

Types

7/2/19

Normal / Abnormal

Normal / Abrormal

Normal / Abnormal

Normal / Athormal

Report of Medical Examination as per the recommendations of National Safety Conferences in Mines (To be used in continuation with Form "O") Certificate No.

(AIA)

Grades

Spiroh

Signature of the Examining Authority

B. Gogan

S2

Additional Sound

200845

Name

Identification Marks

1. Cardiological Assessment:

Electrocardlograph (12 leads) finding

3. ILO Classification of Chest Radiograph:

Profusion of Pnenumoconiotic opacities

Present / absent

Auscultation

2. Neurological Assessment :

Superficial Reflexes

Peripheral Circulation

Vibrational Syndromes

4. Audiometry Findings:

Peak Expiratory Flow

KG/17

Deep Reflexes

Conduction		Left Ear		Right Ear	
Ear Conduc		Normal / Abnorm	al Non	mai / Abnormal	
Bone Cond	uction	Normal / Abnorm		πal / Abnormal	
Pathologica	l / Microbiological	Investigations			
SI. No.	Test		- Charles		
1. Blood - Tc, Dc, Hb, ESR, Pl		SR Platelets	Findings		
2 Blood Sugar - Fasting 8		no & PP	WNL / Abno		
3.	Lipid Profile	.,	WNL / Abno		
4.	Blood Urea, Creatin	ine	WNL / Abn		
5.	Urine Routine	me	WNL / Abro	3.5	
6. Stool Routine			WNL / Abnormal		
			WNL / Abnor	mal	
	s for Mn exposure				
Bet	navioral Disturbance		Present / Not P	resent	
	Speech Defect		Present / Not P		
Neurologic			Present / Not Present		
Disturbanc	es Adiadocokines	ia	Present / Not Present		
	Emotional cha	nges	es Present / Not Present		
ny other S	pecial Test Require	d: 133	a second report	- 0401II	
	ng Function Test	Spirometry)			
	Parameters	Predicted Value	Performed Value	% of Predicter	
Forced Vital	Capacity (FVC)		The state of the s	70 OI FIEGICIE	
	Capacity 1 (FEV1)				
FEV 1/FVC					

FORM - O [See Rules 29 - F (2) and 29 - L]

Report of Medical Examination under Rule 29 - B

(To be issued in Triplicate)**

Certificate No.	2531
-----------------	------

Certificate (No.2.) 3.1 /17
certified that Shri/Shrimoti* employed as Pankaj Plukan (200675) in NULL. Chaeumical mine, Form D. No. has been examined for an initial/periodical* medical examination. He/She* appears to be 27 years of age. The findings of the examining authority are given in the attached sheet. It is considered that Shri/Shrimoti* Pankaj Phukau
*(a) is medically fit for any employment in mines.
*(b) is suffering fromand is medically unfit for
(i) any employment in mine; or
(ii) any employment below ground; or
(iii) any employment or work
*(c) Is suffering from
cured /controlled and should be again examined within a perior of
*He /She will appear for re-examination with the result of test of
7
*and the opinion of specialist from
He /She* may be permitted / not permitted * to carry on his duties during this period.
Space for affixing Passport size Photograph of the candidate
Signature of Examining Authority

Dr. S. BAISHYA

General Manager (MS) Occupational Health Section Od ladia Hespitat, P.O. 1931 (an 201102) Dest Diamogath (Astron)

Name and Designation of Block Letter

Delete whatever not applicable

One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.

Report of the Examining Authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure / control of disability)

0	Annexure to certificate No	16	-1-) [17	o without	as a result
	Identification Made			Tana	1
^	2 - Continuation Mark		ाँ व्याप	KLAJI U	en lean
1111	ell on upper lip	Eas, L-1.6	Left thum!	b impression of t	he candidate
1,	General development		0	Good / Fall / FO	or by by
2	Heightcms.		510	od Con	sup 5+V
3.	. Weightka				ASSESSMENT OF THE PARTY OF THE
4.	Eyes				
	 Visual acuity - distant vision (with 	h or without alasses			
		== (3.43300)	,	Right Eve	/6
			i	Right Eye	19.
	ii) Any organic disease of eyes				(**************************************
	iii) Night blindness	N W			
	- Jane	10 02			
5.	(*to be tested in special cases) Ears:				
0.	i) Hearing Right English (. (1010001111	1.17	NI CLA	1012/11/1
	i) Hearing Right Ear いんしん(li) Any organic disease / ル ば		Left Ear/	VE 00 CC17	
6.	Respiratory System :	()			
	Chest measurement	la incalle	1 learn =	WNL	_ 8
	i) After full inspiration				
	ii) After Full expiration			XR:N 57	
7.	Circulatory System		U	S Abdom No	2767
	Blood Pressure 112 Science	119	- 01111		Et amba
	Pulse / Little		-livid ke	parometaly	unth batty
8.	Abdomen: Cyllical Tenderness N. (16)		Changes.	0.	,
	I wer		- remage,		
	Spleen of compaction				
	Tumour SICC				1000/0
9	Nervous System . + + NI			TC	: 4800 Cmm
	History of fits or epilepsy NIL	S. BILIRUEIN	: 2.7 mg/dl.	PLATCLET	:199,008 mm
	Paralysis A) : [SGOT	: 32 WL	P73124 ETO1 .	07
	Mental Health しょういし	SGPT	.36 ur	НЬ	- 15.5 gm/dl.
	Locomotor System (CN)		211	7 3 \$	90
11,		SAP	U/L.	PP53	90mg/dl.
12,	A I I I	PROTEIN	7.9 G/d1		le7mg/al.
13.	riyarocele	ALBUMIN	4'5 G/d1.	UREA	l.6gm/dl.
14 15			. 3.4 G/dL	CREATIN.	
13	Urine : Reaction	Groenin		CHOLESTER	(. & .3m/d).
		GIDA OLL J	:mg/di.	HAGEYCE VE	!3.6gm/c1
	Albumin Sugar > - Nic	U. L. REME	*************	1101	144
16.	Skiagram of chest			UPL	: 9.7gn/di
17.	Any other "C" test considered necessary	hy the examining a	uthority		A:1301
18.	Any opinion of specialist considered nec		and totally		
	, parameter apparameter voluntation in the) (
				/ .\	
_	1			()	1 I
Place	e: 2 7 K1		Signature.	of the Examinion	E Thomas

Report of Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form "O")

Sertificate No.

Namo

P. Phukon .

Identification Marks

200875

14/2/19

Chamical

1. Cardiological Assessment:

	31	Normal / Abnormal	
Auscultation 52		Normal / Abnormal	
Additional Sound	Additional Sound	Normal / Abnormal	
lectrocurdiograph (12 lends) finding		Normal / Absormal	

2. Neurological Assessment:

Findings	Normal / Abrigrmal
Superficial Reflexes	Normal / Abriganial
Deep Reflexes	Normal / Abnormal
Peripheral Circulation	Normal / Abnormal
Vibrational Syndromes	Normal / Abnormal

3. ILO Classification of Chest Radiograph : CNA

ico diassilication of offest Rustograph ?	. 10.00	
Profusion of Prienumoconiotic opacities	Grades	Types
Present / absont		

4. Audiometry Findings :

WNL

Conduction Typu	Loft Ear	Right Ear
Ear Conduction	Normal / Abnormal	Normal / Abnormal
Bone Conduction	Normal / Abnormal	Normal / Abnormal

5. Pathological / Microbiological Investigations:

SI. No.	Tests	Findings
1.,	Blood - Tc, Dc, Hb, ESR, Platelets	WNI. / Abripmal
2.	Blood Sugar - Fasting & PP	WNL / Abnormal
3	Lipid Profile	WNL / Abromal
4.	Blood Urea, Creatinine	WNL / Abnormal
5.	Urine Routine	WNL / Abnormal
6.	Stool Routine	WNL / Abriormal

6. Special Tests for Mn exposure : C N

Behavioral Disturbances		Present / Not Present
	Speech Defect	Present / Not Present
Neurological	Tremor	Present / Not Present
Disturbances	Adiadocokinesia	Prosent / Not Present
	Emotional changes	Present / Not Present

7. Any other Special Test Required :
Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted	
Forced Vital Capacity (FVC)				
Forced Vital Capacity 1 (FEV1)		\bigcirc	7%	
FEV1/FVC		V ,		
Peak Expiratory Flow			M	
		G-PIA/		

W __

KG/17

Signature of the Examining Authority



FORM-O

[See Rules 29 - F (2) and 29 - L]

Report of Medical Examination under Rule 29 - B

(To be issued in Triplicate)**

Certificate N2.502

/17

Certificate 148.0 U.C. 117
in NHV Claumed mine, Form D, No. has been examined for an initial/periodical medical examination. He/She appears to be 32 years of age
The findings of the species to be years of age
The findings of the examining authority are given in the attached sheet. It is considered that Shri/Shrimoti* Riku Cisquet
*(a) is medically fit for any employment in mines.
*(b) is suffering from and is medically unfit for
(i) any employment in mine; or
(ii) any employment below ground; or
(iii) any employment or work
*(c) is suffering from
cured /controlled and should be again examined within a perior of
*He /She will apear for re-examination with the result of test of
*and the opinion of specialist from
He /She* may be permitted / not permitted * to carry on his duties during this period.
to carry of his duties during this period.
Space for affixing
Passport size
Photograph of the
candidate Dipjych' Kbus.
Signature of Examining Authority General Manager (MS) Occupational Health Section Oil India Hospital P.O. Echa (M785602) Dist. District th (Assum)
Place Name and Designation of Block Letter
Date

Delete whatever not applicable

One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.



Report of the Examining Authority
(To be filled in for every medical examination whether initial or periodical or re-examination or after cure / control of, disability)

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	Annexure to certificate No. medical examination on				111
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2,				1845-1 VA. POLICE (1971)	ı
3.	Weightkg.				
4.	Eyes	1	late -		5 20
	i) Visual acuity - distant vision (with	h or without glasse	es)	Right Eye	1/6
		l var		Left Eye6	-//
		2		Lett Eye	/6
	ii) Any organic disease of eyes	4			
		NO			
	iv) Squint	10 02			
				•	
5.	(*to be tested in special cases) Ears: i) Hearing Right Ear WNL (ii) Any organic disease / N. (u) .	NNLCUM	nally
9.0	i) Hearing Right Ear WNL	, on or con-	A Veft Earl		
	ii) Any organic disease / N.C.		0-		0
6	Respiratory System: Chest measurement:		110 1000	Kan NN	
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	After fill insulation			CXR:	
	ii) After Full expiration		cms.	are Abdom No.	857.4
7	Circulatory Siystem : WNL	1.0			
1	Circulatory System: 20 80 mm	rud.	0.111	1 - Inmosal	y with
	Pulse 64 Mn		- Imia	Lepatomejal	7
0	Abdomen: Soft		L_4A ,	-1	
8.	Tenderness N		dalex	changes.	
					1_
	Liver > NP			TC	600 Cram
	Tumour N.O				1250 Cmm
0	Nervous System: WNL.	S. BILIRUBIN	: 1: 0 mg/a:	PLATELET	
9	History of fits or epilepsy N Q	SGOT	: 48 U/L	PS8F34 #1 ::	
	Paralysis N Q		: 66 UL	НЪ	- 13 <u>'9gmfdl.</u>
	Mental Health WNL	SGPT		FBS	0mg/dl.
10	Locomotor System WNL ·	SAP	. 128 U/L:		1)3.mg/d1.
10 11	Skin NNL ,	PROTEIN	8.0 G/d!	PPBS	_
	_	AND THE RESERVE AND ADDRESS OF THE PARTY OF		UREA	1.8gm/dl.
12.	Hernia > N Q	ALBUMIN	4:3.GM	CREATINING	0 ' 8 .gm/dl.
13	Any other abnormality (N)	GLOBULIN	3.7 G/dl.		135 gm/dl.
14.					
15	Urine:	URIC ACID	:mg/di.		: 82 cm/dl
	Reaction	STROL REME	*	HDL	44 gm#1
	Albumin _ Nic			LDL	. 74 gradi
	Sugar /				·······agitadi
16	Skiagram of chest	by the aveniet			
17	Any other "C" test considered necessary		aumonty		
18	Any opinion of specialist considered nec	essary			ų.
			MARSAS ATT	/	5 ₀
			Y	, \	
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Place: DJN

Scanned with CamScanner

Report of Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form "O")

Certificate No.

Name

R. Gogan

Identification Marks

200 849

Chamical

1. Cardiological Assessment:

Auscultation	S1	Normal / Abnormal	- 5
	S2	Normal / Abnormal	_
	Additional Sound	Normal / Abnormal	
Electrocardlograph (12 loads) finding	Normal / Abnormal	-

2. Neurological Assessment :

Findings	Normal / Abnormal
Superficial Reflexes	Normal / Abnormal
Deep Reflexes	Normal / Abnormal
Peripheral Circulation	Normal / Abnormal
Vibrational Syndromes	Normal / Abrormal

3. ILO Classification of Chest Radiograph : (N/A)

Profusion of Pnenumoconiotic opacities	Grades	Types
Present / absent		1,700

4. Audiometry Findings:

Conduction Type	Left Ear	Right Ear
Ear Conduction	Normal / Abnormal	Normal / Abnormal
Bone Conduction	Normal / Abnormal	Normal / Abnormal

5. Pathological / Microbiological Investigations:

SI. No.	Tests	Findings
1.	Blood - Tc, Dc, Hb, ESR, Platelets	WNL / Abndrmal
2.	Blood Sugar - Fasting & PP	WNL / Abnormal
3.	Lipid Profile	WNL / Abnormal
4.	Blood Urea, Creatinine	WNL / Abdormal
5.	Urine Routine	WNL / Abnormal
6	Stool Routine	WNL / Allnormal

6. Special Tests for Mn exposure : (N/A)

Behavi	oral Disturbances	Present / Not Present
1	Speech Defect	Present / Not Present
	Tremor	Present / Not Present
	Adiadocokinesia	Present / Not Present
	Emotional changes	Present / Not Present

 Any other Special Test Required : Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FVC)			
Forced Vital Capacity 1 (FEV1)			
FEV1/FVC			
Peak Expiratory Flow			MATERIA CO.

₩ — |1+— | KG/17

Dipyoh Das.

Signature of the Examining Authority







FRIDAY JANUARY 1, 2021

- *CITY* -

THE ASSAM TRIBUNE, GUWAHATI 7

NORTH EASTERN COALFIELD
Coal India Limited

Coal India Littined
A Manaratna Company under Ministry of Coal)
Margherita-786181 (Assam)

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All fina tenders issued by Cit. and its Subsidianes for procurement of Boods. Works and Services are available on website of Coal India Uta www.coalindia.in respect is subsidiary. Company Ott. e-procurement portal https://coalindiatenders.inc.un and Central Public procurement portal https://coalindiatenders.inc.un assistation through GeM portal https://gem.gov.in.

Sd/- General Manager, NEC, Margherita

NATIONAL HEALTH MISSION

FOR SELECTION OF TRANSPORTER FOR DISTRIBUTION OF HEALTH WATERVALS IN ASSAU (NATIONAL COMPETITIVE BUBDING)

HABILIT MALERIALS IN ASSAME (MICHAEL) AND ADMINISTRATION OF STREET PRODUCTION OF STREET PRODU

WEATHER GUWAHAT

LOCAL FORECAST

Felicitation

OBITUARY

Ankur Kataki CITY CORRESPONDENT

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STAFF REPORTER
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Six mega Rly projects set for completion in 2021

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STAFF REPORTER

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5: February 2021.
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net wen Kampur and Hara is likely to be completed by end of January

Corruption charges aimed at

tarnishing Ajmal image: AIUDF

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Complaint against forest officer CORRESPONDENT

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Volunteers for R-Day parade STAFF REPORTER

STAFF REPORTER

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Fire damages two vehicles CITY CORRESPONDENT

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Earlier in December, valuations are Legal Rights Universities; (LRO) had alleged that the Armal Foundation receives funds from Joseph NGOs

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All Read Systems To 2000

Corp. Office: 21 11, January Colony, Ground Prior, Kokisty, 10333

Ph. 943 94353 144; Email: critic - forms on the color

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Sd/-Mission Director, NHM, Assam

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NATIONAL HEALTH MISSION ASSAM

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Mission Director, VHM, Assem

NORTH EAST CANCER HOSPITAL AND RESEARCH INSTITUTE 11 Mile, Jorabat, Guwahati 781023

Extra Ordinary General Meeting

An the Countries of NORTH EAST ONCO CARELITO, are counsed to be prepared in Estima Ordinary Sentral Meeting in 25th January (Friday), 2021 at 11 am. Holes EMIL GRUBBE AUTORIUM, North East Cancer Hospital and Research Institute, 11th Mile, Jordan, Gwahat Charles

Note: As cer section 198 of the Companies Acti an instrum appointing drowy must be deposited to Company before to us of the more.

fours of the meeting Mob: +91 72228 5333; +91 98540 07397 OS Pooja Sharm



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Tribune employee given hearty farewell

STAFF REPORTER

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SEBA employees' convention held CITY CORRESPONDENT

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Ad film on transgender people to be released today STAFF REPORTER

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্র দৈনিক জনমভূমি :

'গীত-কথা আৰু কবিতাৰ দুপৰীয়া' শীৰ্ষক অনুষ্ঠানেৰে নতুন বছৰক আদৰণি

পাথবিঘাট । নিজা বাতৰি দিওঁত তঃ ভিচেম্বৰ : তঃ ভিচেম্বৰ বছৰৰ পেষৰ দিনটোত পশ্চিম সকতৰ প্ৰতিহাসিক পাৰ্থবিদ্যাৰ সাহিত্যৰ পত্ৰম পাঠন সূচন আৰু জননৰ পৰিবেশ সৃষ্টি কৰা নাপনিক সাহিত্য চ'ল আৰু পৰ্যক সমন্ত্ৰ্য গোষ্টাৰ উল্লোখত আয়োজন কৰা হয় 'গাঁত-ক্ৰণ কৰিতাৰ দুপৰীয়া। শীৰ্ষক এক অনুভানৰ। অনুষ্ঠানৰ আছেৰে পৰিদৰ্শন বাংলাৰ চৌহদ জীপাল হৈ উঠে। বছৰৰ শেষৰ দিনটো এক নাপনিক পৰিকেশ্য নৃত্তী কৰি উপস্থিত পোক্তব্যেল আগন্তুত ২০২১ বৰ্বক আসৰ্বত জনাব: অনুন্তানত কৰিত্য-গীত আৰু ভিচু বিবয়ৰ বন্ধতা প্ৰকাশৰ লগতে সদ্য খেষিত কৰাহাটী বিশ্ববিদ্যালয়ৰ পৰা পি এইড ভি ডিগ্ৰী প্ৰহণ্ণ কৰা পথৰুমাটৰ সু-সন্থান ড" আৰুল ওৱানুন আৰু পাগৰিবটো শাৰা সাহিত্য সভাৰ সভাগতি পশ্ম তুমাৰ লাম, ঘটৰা সত্তৰ প্ৰভিন্ন সভাগতি ঘণ্টাৰ 5প্র (তকা আৰু উচ্চতৰ মাধ্যমিক ১০খ পরীকাত প্রথম স্থান প্রান্ত পার্থনিকটিন সন্তান পূর্বালী ভেকাত সম্বর্ধনা জ্ঞাপন কৰা হয়। নালনিক সাহিত্য স্থান ত্ৰুসৰ পৰা ত' অন্তুল ওবাদ্দ, সল অবসৰী প্ৰধান লিকক পৰ কুমান দাসৰ বিশেষভাৱে মানপত্ৰ, শ্বাই চুলাহ গানোচা আৰু গ্ৰন্থ किलामार्थ अपूर्वना अप्नादा है। इ बाब महास्त्रवी वाल्यवी पहल সমাজ সেবক কলিচবৰ লগ্নী, অসম সাহিত। সভাৰ আকালৰ ৰাজ্যিক আহ্বাস্থ্য ক্ষেত্ৰিত পোনৰ কৰিছা পাঠৰ সময়ত চক্তৰী পানী, কাকন্ত্ৰ কৰিছা আৰু বিশিষ্ট সুৰকাৰ সংগীত পৰিচালক প্ৰভাৱ কৰিছা। এইসকলৰ গাঁত কৰিতাই অনুষ্ঠানুট্য জীপান কৰি তোলে। অনুধাৰুত্ব ভেৰাই আঁত া ত ৰূপত হ' অনুষ্ঠান। জনাগা কৰি তেকো অন্ধাৰ্যন্ত ভেকত হ'বত ধৰা অনুষ্ঠানত চিলাছিত হৈ চিলাঝাৰ সমাধিৰ বিধায়ক বিভাগ কুমৰে লইকীয়াই সংঘাষ্ঠিত হ'কি চাৰিভগৰাকীৰ ফুলাম গায়োচাৰে আদৰ্শন জনায়। সু-চিকিৎসক তথা সাহিত্যিক চাং কমলাকান্ত শৰ্মীৰ সঞ্চালনাত অনুশান্তিত হোৱা, সভাত ৰাষ্ট্ৰীয় কৃষ্টো শিক্ষকৰ বঁটা। তাপক শাশাংক হাছবিকা, দৰা ছিলা। সাহিত্য সভাৰ প্ৰান্তন সম্পাদত সংৰাম ভোৱা ছোঠ নামৰিক চিত্ৰদান চংগীয়া, ছানিগাম ডেকা, কমলা শইকীয়া, ধন্দ্ৰ। See etal arus fau, una rupica ella egengaben i esta Gelfeie, eri a



P.O. Dulinan - 788602, Assem, Incla. C.N. L11101AS1959G08001148

India Limited against the proposal Not Invasions of Installation The copy of Environmental Clearance, IF Not J. 1101/1379/2015-I.H.(H), dated 28° December 2020 is available for reference with Poliucian Control Board Assay in PCBA1 and may also be seen as weekles of MoEFSCC at https://foarmesh.nic.lim/ The Ministry of Environment, Forest and Clemate Change GOThas accorded Environmental Clemate Change GOThas accorded Environmental Clemater Change of the Said project under the provision of EIA Notification (2006).

Nodel Officer EC/FC/NEWL, Oil India Limited.



ছয়গাঁও-বকো সমষ্টিত অসামাজিক কাৰ্যকলাপ বন্ধৰ দাবী 📕 মখ্যমন্ত্ৰীলৈ স্মাৰক-পত্ৰ প্ৰেৰণ

ভিত্ৰমৰ : কামৰূপ জিলাৰ হ্ৰাটাও আৰু ংকে। বিধানসভা সমষ্ট্ৰিব थयुर्वत सामाळन्त्रमुद्द अस्विति ব্যাপক হাৰত বৃদ্ধি পাইছে বিভিন্ন অনামাজিক কাৰ্যকলাপ ভংগাও মাৰু বংকা সমুক্তিৰ অকুণ্ডি গটুৰমাৰী সাল্পান, জেবনিম্নী, হাঁহচনী ক্রীতানা, ভাউনিয়াভিয়া, অলাতনী (৬ কাসাং ৄ পাসাৰী, মালিবাৰী ৰাংগালাৰী, সোণাই লী আদি মঞ্চলসমূহত একাল অদাদ ভেদ বাবেগা কৰি উঠা বিভিন্ন অদাদ ভিক কাৰ্যকলাপৰ বাবে স্থানীয় সক্ৰবন মহলে তেওঁলোকৰ ভবিষ্যং গ্ৰন্থক ল গাককৈয়ে উভিত হৈ পৰিছে ਵਿਦਿਸ਼ ਵਲਾਗ ਦਾ ਇਤਿਆਜਿ ਗਾਉਣ চাৰিমালি চকত একাংশ বুৰন্ধৰ বাবসাধীয়ে নিৰ্মিয়ে চলাই গৈছে য়াবৈদ হাঁৰ কেলা এই হাঁৰ সালৰ



বৰ্ণমান্ত হৈ পৰিছে। ইতিমধ্যে বছ লোক নিজৰ গৰ-মাটি বিক্লী কৰি ভবাহাটী নাইবা বহিংৰাভাত দিন হাজিৰা কৰি কোনোমতে নিজৰ পৰিয়াল পোহপাল দি আহিছে ইয়াৰোপৰি অধানবিক হাৰত বৃদ্ধি

পাটার হল আরু গালা সংহারদেশীর সপ্ত হ সংক্ৰতি ৰুদ্ধি পাইছে ভাগছ তেইনকাৰীৰ সংখ্যা বছত্ত তভলসন্হৰ এতাংশ সুব গ্রাগছৰ এবলত পরাত দিকবিলক

হেৰুৱাই শেলাইয়ে স্থানীৰ ৰচেতন মহালে। ইয়াৰোপৰি কৰেন্দ্ৰ, কমুচিৰাপ মাদি সেকে কৰিও নিজৰ মনিকার জীয়ার ক্রমের বিভাগ ছয়গাঁও আৰু ব্ৰো সমাইৰ

গ্ৰামাজ্যত এবা হত পকা বিভিন্ন অসামাজক কাৰ্যকলাল লভ কৰাৰ নামীত মুক্তি ছি তে এছং গ্ৰেক্টী-वानावनी (भाषवनी) (अह झावन बेरमाग्रह ४व अहितुमी कार्यम्ही গ্ৰহণ কৰে। পৰৈমাৰী বাজ্য চল বৈষয়াৰ কাৰ্যালয় প্ৰাচ্চপাত আজি জি লে এক আছ*ল্লা*বৰ উল্লেখ্য নিতিত এসামাজিক কার্যক্ষসাপ বন্ধ করার নান্ত ও ওবিজ্ঞান বন্ধ কৰা দাবীত এক কটীছ প্ৰবেশন বৰ্মটো তাৰ্যসূচী কপায়ণ কৰা যে প্ৰতিবাদী আৰ্মসূচীত সাংবাদিকসকলে যাতে हारत (च बार्ड हेन महेबबारी व्यक्तात्वा (जानत्वात व्यह्मप्रमान कृता की प्रभावना सह करक গ্রামাঞ্চলত অবৈধ ভ্রাচন প্রচলন বদ্ধ করক জি কে এই প্রেম্ব ক্লাব জিকাবাদ কর্মি দি ব্যবহারীর পৰিবেশ উভাল কৰি তোগে। প্ৰতিবাদী কাৰ্যসূচীত জি তে এছ শ্ৰেছ প্ৰবেশ মনুহ সদসঃ উপস্থিত

থকাৰ ব্যৱসান আজ্ঞান ওচনান আক্ৰুৰ ব্যৱসান আজ্ঞান ওচনান আছৰ মৃত্যুত প্ৰেম্প্ৰী তথা প হুম্বীয়া লাহা ছাত্ৰ সমূৰে স্তু ৰচিত্ৰল ইছলাম, পৰৈম্বী হুমৰীতা ভোট নাগৰিক মণ স্থাপতি ১৮ কঞ্চনুত ২০ 🖒 🎺 অসম মিঞা (অসমীয়া) পাঁচ কাৰৰণ জিলা সমিতিৰ মুখপাত্ৰ মুক্তাৰ নতক আনুত্বৰ কামৰূপ চি সমিতিৰ সভাপতি ইবনাৰ গোটেন লগতে জনীয় বাইক উপস্থিত পাৰ্যে থাক বকো সমন্ত্রিক হারাঞ্চল অন্যাহত থকা নদ, ডাং, চীৰ, হ খেলৰ লক্ষতে বিভিন্ন অসামাভি कार्यकारात्र तक्ष क बर्दरीज गरेक 3% 4344 44 /944 474

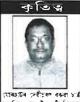
তেজপুৰত আৰক্ষীৰ ফায়াবিং ৰেঞ্জত অঘটন

হেত্ৰপুৰঃ দিশেষ প্ৰতিনিধি, ৩১ তিউদৰ : তেজপুৰন জুমুল মন্দ্ৰিক সমীপৰ অক্টান সংস্কাৰ কেন্তুত অধ্যান। নিমুনীয়া অনুশীকৰৰ সমৱতে ছাৰ্চিচ পিট্টলৰ চুলীত অমতে ব'ল চুকুনীক অকুটা কোনো আছি কুৱা চন্দ্ৰাৰিক ংগ্ৰেচ অবজীং অনুশীলং চলি থকাৰ সময়তে এটা ছাত্ৰিচ লিগ্ৰল পৰিষ্কাৰ কৰি থাকোতে অন্যক্ষান্তৰত পিষ্টলৰ গুলী ওলাই গৈ হাবিদানৰ হিমু বৰ আৰু আৰক্ষী ্টাবান গুলেম্ব গড়োৰ গৰীৰত আহতে অৰে পিউলৰ পৰা নিগত চলীতে হিত্ৰ পৰাৰ পোৱাৰত আৰু গুলেম্বৰ

বাভাৰ বাওঁহাত তথা কৰ্মনত আঘাত কৰে। সামাৰ বান্তন বান্তত তথা কৰ্মনত মাত কৰে। বুয়োক তথাতি থাকৈ ৷ তথা কৰা কৰে তথা আমাৰিক চিকিৎসাকতে স্থাতি কৰা হয় আৰু চিকিৎসক বুয়োজনতে বিজয়কু বুলি চানিবলৈ ছিল। সাংক্ৰমিক আৰত আৰাজ্যাত্ব কৰা "কোনে মুখ্যন দিয়া প্ৰথম অনুসৰি সুযোজনে গুজনা-চানিকৈ আই দিন্তিক প্ৰক্ৰম অনুসৰি বুংলাজনৈ ওচনা-উচনিকৈ বাই পিউল পৰিছক কৰি আছিল আৰু ভূলবেশতঃ আঙু লি পিউলৰ টুগাৰত লাগি বোৱাত পিউলৰ পৰা গুলী নিগতি হয়, কঞ্চীয় ডাবে একেটা প্ৰদীয়ে শুৱোকসকে আগতেপ্ৰাপ্ত কৰে

নহিৰাত নাট সংকলন উন্মোচন

নিৰ্বা : নিছা বাহাৰ দিওঁতা, ৩১ ডিএখৰ : দক্ষিণ ৰামৰূপৰ নহিৰাত আছি নটাকাৰ ইমা নহিৰা ভটমাৰা আঞ্চলিক হেইফুলন শিক্ষক ,যাগেন্দ্র



যোৰতটেৰ দেৱীছকা বঞ্জা চাৰ্মী

कृतक प्रशेवनरी श्वारिका गाँउ राजका क्रिकारी নাঞ্জন' শীৰ্ষক সাত্ৰনাত এলাটকল নাৰ একঃগ্ৰন্থ ভাতি উন্মাচন কৰা হয় গ্ৰন্থখন অনুষ্ঠানিকভাৱে উন্মাচন কৰে মনকডৰ মহাবিদান্তৰ অৱসংখ্যাত है: महाइन कवा इय অবাক্ত ড" গৈলেও নাৰাত্ত জনুনীয়েই বাংগুৰু বিশিষ্ট লাবানিক বিমন শর্মাই সভাপতির করা গ্রন্থ ভাষাত্ৰী সভাতনত নহিবা চইমাৰ যাম্বলিক চাইস্কলন প্ৰদান সিক্ষৰ বীৰেন কুমাৰ, জোক পিকটিট্ৰী নিপালী পথ (৪৫), নহিবা ধাইজ

গ্যাৰহৰ সভাপতি প্ৰবীপ বোৰামী থাৰ নিওত ৰাখী প্ৰকেল্ডন গোৱাৰী নাৰে বাৰ শক্ষায়তৰ সভাগতি মহেশ্বৰ মাকুলীয়া প্ৰথুৰো ভক্ষপটোৰ কেইবাজনো বিশিষ্ট নাগৰিক উপপ্ৰিত আছিল সভাপতিৰ নহলতে সং অসমীয়া নটি সহিত্যৰ তৰিবাস বৰা HOPE SOUTH TONING ESKA সোঁকৰে ভাৰু পৰৱৰ্তী সময়ত নাট। সাহিত্যৰ বাৰা সম্পৰ্কে ১মুকৈ विज्ञिष्य कर्य नाग्नेकान (व কুমাৰে সমস্ত অনুষ্ঠানটোৰ গ্ৰান্ত কৰে

নলবাৰীত দৰিদ্ৰ লোকক

কৃতিপ

"Liverpool School of Tropical Medicine, UK" য়ে আভঃৰাষ্ট্ৰীয় পৰ্যায়ত बारराइन देश "Homo Success" नरीकाणिड Women and Psycho logical Health" কাক হব ছবিয়তে আলপাইন শৰ্মা বৰুৱাই পোৱা ইণ্টাৰ্ণছিপে অসমবাসীলৈ গৌৰৰ কচিয়াই মানিছে। উল্লেখবোদ্য যে উভ শ্ৰীক্ষটিত ভাৰতবৰ্ষৰ বছ সমু ল্ড-ল্ডীন মালত স্থীয়ত সিংগ্ শৰ্ম বৰুৱা আৰু ইীয়ুডা ीर्मात्रक दक्ष्यान चटा. ए दना क्षांत्र शहर स्थार्ट्य

DIRRUGARH UNIVERSITY & ASSAM SCIENCE & TECHNOLOGY BRIVERSITY North East Institute of Management Science (NEIMS Near RRL, Jornat-6, Assam Estd. In the year 2000 Approved by NCTE and AICTE, Govt. of India

POST GRADUATE ADMISSION

Bachelor of Education (B.Ed.) Master of Social Work(MSW) Master of Travel & Tourism Management (MTTM) Master in Notel Management

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SHORT TENDER NOTICE

SHORT TENDER NOTICE

The background Agreement of Agreement are here. Sealed tenders an presembed form reventually, to be drawn in N,190 D-121 with of Agreement affixing Non-Rehundable Court fee Stamp Rs. 8, 25. Repect Light 8, wenty free; nelly are herefunded from registered Contractors firms of linguistic higherment for the following works under Pathsala Division (Irrigation). Pathsala and will be received by the Indexsigned up to 2,00 PM, in 40-413-2021 and will be repeated on the same date and place at 2,50 PM, in presence of the interedial Contractors or their authorized agents if any II the closing date of receiving the tender paper to be if see days and the contractors of their authorized agents if any II the closing date of receiving the tender paper to be if see days on any "handh" the same will be received and opened on the next working day in the ser-time and place.

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Common Environment Management Plan for Onshore Oil & Gas **Drilling Activity**





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1.0 INTRODUCTION:

OIL INDIA LIMITED (OIL), a Government of India Maharatna Enterprise, is currently engaged in carrying out hydrocarbon exploration and production activities mostly in its operational areas in Upper Assam, Arunachal Pradesh and Mizoram in the North Eastern part of India. OIL is also undertaking hydrocarbon exploration activities in few Indian states and few overseas countries. Oil India Limited was incorporated on 18th February 1959 to expand and develop the newly discovered oil fields of Naharkatia and Moran in the Indian North East. In 1961, it became a joint venture company between the Indian Government and Burmah Oil Company Limited, UK. In 1981, OIL became a wholly owned Government of India enterprise. Today, OIL is a premier Indian National Oil Company engaged in the business of exploration, development and production of crude oil and natural gas, transportation of crude oil and production of LPG.

Govt. of India and Assam has awarded Petroleum Mining Leases (PML) to OIL for exploration and development of oil & gas at Dibrugarh, Chabua, Tinsukia, Hugrujan, Naharkatiya Extn, Dholiya and Dumduma areas including the adjoining areas in Dibrugarh, Tinsukia and Sibsagar Districts.

2.0 Environmental Management Plan

This Environmental Management Plan and Monitoring Framework is a site-specific document for the drilling activities that have been developed to ensure that OIL can implement the project in an environmentally conscious manner and where all contractors, understand the potential environmental risks arising out of the proposed project and take appropriate actions to properly manage such risk.

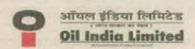
This EMP will be an overview document that will guide environmental management of all aspects of OIL's activities i.e. construction and operation of drilling wells. This EMP will be backed up by more specific Environmental Action Plans, Procedures and Bridging Documents.

The EMP describes the actions to be adopted in terms of:

- National Policies and Regulations;
- Best Practices and guides; and
- Local Environmental and Social Sensitivities.



The Environment Policy of OIL is presented below.



ENVIRONMENT POLICY

Oil India Limited is guided by its Core purpose of "being a fastest growing energy company with global presence and providing value to all stake holders". Currently as an E&P company, OIL has a pan India presence with overseas foot prints.

In alignment with the core purpose, OIL is deeply committed to the Preservation of Environment & Ecology, Sustainable Development, Enrichment of the quality of life of Employees, Customers and the Community around its operational areas.

In pursuance of the above mentioned policy OIL is committed to:

- 1. Ensure an environment friendly work place in all our operations.
- 2. Comply with relevant Environmental Laws and Regulations in OIL's operations, prescribed by the statutory bodies.
- Follow a systemic approach to Environmental Management Plan in order to achieve continual performance improvement.
- Adopt technologies that conserve energy, prevent pollution, maximize recycling, reduce -wastes, discharge and emissions.
- 5. Develop green belts and plant trees in and around OfL's operational areas in harmony with nature.
- 6. Protect aesthetic, cultural, social patterns and historical characteristics in and around OTL's operational areas.
- 7. Promote a culture among OIL employees, contractors and all the stake holders associated with OIL for shared responsibility towards environmental protection.
- 8. Promote and nurture a healthy, safe & productive environment in its area of operations.

(S.RATH)

DIRECTOR (OPERATIONS)

Effective Date: 25th April, 2012

Approved in the 420th Board Meeting

1

4 | Page

3.0 IMPACT ASSESSMENT

The potential impacts arising due to the construction and operation of the drilling activities are given below:

- **3.1 Air Quality:** The operation of DG/GG sets, movement of vehicles and machineries during construction and drilling at drill sites will result in the generation of air pollutants viz. PM, NOx and SOx that may affect the ambient air quality temporarily. Air pollutants like particulate matter, hydrocarbons and NOx will also be generated during drilling operations.
- 3.2 Noise Quality: Operation of heavy machinery/equipments and vehicular movement during site preparatory and road strengthening/construction activities may result in the generation of increased noise levels. Operational phase noise impacts are anticipated from therunning of drilling rig and ancillary equipment *viz*. shale shakers, mud pumps and diesel generators, gas generators.
- **3.3 Soil Quality:** Stripping of top soil will affect the soil fertility of the well sites temporarily. Potential adverse impacts on soil quality may also result from improper storage and handling of fuel, lubricants, drilling mud and drill cuttings.
- 3.4 Water Quality and Hydrogeology: All wastewater discharged from the drilling operations will be treated in the ETP and discharges will conform to CPCB standards. As the volume of water to be discharged is small, it is anticipated to cause minor increase in pollution load for specific parameters in receiving water bodies. Uncontrolled surface runoff from the drill sites may compose of waste fluids or storm water mixed with oil and grease and may pollute the surface water quality. However, the surface runoff will be treated with sedimentation tank and oil water separator at site.

3.5 Biological Environment:

The existing vegetation at the proposed drill sites, approach roads and RoU of the pipeline will be felled for site development. Noise generated from drilling operations and vehicular movement within the drill sites and approach roads may affect the reptiles, birds and mammals adversely and may result in their moving away from the project area for a temporary period. OIL will obtain Forest Clearance from MoEF&CC for drilling within the forestlands; all the conditions mentioned in the forest clearance would be complied. Surface runoff from the drill sites contaminated with sediment, may reachsurface water channels and increase the suspended solids load of the channel water. Increase of suspended solid will increase the turbidity of river water that ultimately will adversely affect the DO level in the water. The turbid water and lower DO may affect the primary productivity of the impacted areas of the rivers. The process effluent will be adequately treated in the ETP to meet the industrial effluent discharge standards. The discharge of treated effluent is not expected to cause perceptible changes in the water quality of the receiving stream.

3.6 Socio-Economic Environment: Approximately 3 ha. land would be required for each well. Land will be purchased from local communities however; no physical displacement during land procurement is anticipated. Additionally, land will also be procured for construction of 100-200 m approach road to the drill site from existing roads. Anticipated number of families directly impacted would be limited to 2-5 nos. for each of the drill sites. The dependency of the landowner in case of generation of livelihood is limited as the land is classified as monocropped agricultural land.



OIL/its contractors would endeavour to provide maximum employment to the local people; however, certain percentage of semi-skilled and highly skilled migrant labour would be used by contractors for manning technical activities. It is anticipated that occasional conflicts would arise with the local community over the recruitment of migrant workers. Discomfort due to dust and noise to adjoining communities, influx of people are likely to occur.

The construction phase of the project is likely to generate both direct and indirect opportunities for employment. The estimated direct employment would be approximately 50 un-skilled workers during the peak construction phase that will primarily sourced from nearby areas. Indirect employment would be primarily in the supply chain as vendors, which are anticipated to be set up to support the construction.

3.7 Impact on Community Health & Safety: Community health and safety of inhabitants residing close to the proposed well sites stand to get affected from frequent heavy vehicular movements along village access roads and due to noise from drilling rig operations, movement of heavy vehicles during construction etc.

4.0 DETAIL ENVIRONMENTAL MANAGEMENT PLAN

4.1 Air Quality Management Plan

- Vehicles delivering raw materials like fine aggregates will be covered to prevent fugitive emissions.
- Sprinkling of water on earthworks, material haulage and transportation routes on a regular basis during construction and decommissioning phase of the wells.
- Flare stacks of adequate height would be provided.
- DG/GG set stacks would have adequate height, as per statutory requirements, to be able to adequately disperse exhaust gases
- Periodic monitoring of DG/GG set stack emission will be carried out in accordance with the Environmental Monitoring Plan to assess compliance with CPCB DG set exhaust standards.

4.2 Noise Management Plan

- Selection and use of low noise generating equipment with in-built engineering controls viz. mufflers, silencers, etc.
- All DG/GG sets would be provided with acoustic enclosures.
- Appropriate PPEs (e.g. ear plugs) will be used for by workers while working near high noise generating equipment.
- All vehicles utilized in transportation of raw materials and personnel will have valid Pollution under Control Certificates (PUC).
- All high noise generating equipment will be identified and subjected to periodic preventive maintenance.
- No night time operation of vehicles and construction activities will be undertaken.



4.3 Soil Quality Management Plan

- Drip trays to be used during vehicular/equipment maintenance and during re-fuelling operations.
- Spill kits will be made available at all fuel and lubricant storage areas. All spills/leaks contained, reported and cleaned up immediately.
- Dedicated paved storage area will be identified for the drilling chemicals, fuel, lubricants and oils within the drill sites.
- 1.5 mm HDPE lined pits will be considered for the disposal of unusable drilling mud cuttings and drilling wastewater etc.

4.4 Surface Water Quality Management Plan

- Levelling and grading operations will be undertaken with minimal disturbance to the existing site contours thereby maintaining the general slope and topographical profile of the site.
- During site preparation and construction, surface water run-off will be channelized through appropriately designed drainage system.
- Sediment filters and oil-water separators will be installed to intercept run-off and remove sediment before it enters water courses.
- Domestic wastewater generated from drill sites will be treated through septic tank and soak pit system and then discharged.
- Process wastewater would be treated in Effluent Treatment Plant (ETP)at drill sites.

4.5 Ground Water Quality Management Plan

- Water based mud would be used as a drilling fluid for the proposed project.
- Eco-friendly synthetic based mud if required for deeper sections, will be used after providing intimation to the Pollution Control Board;
- The drill cutting along with spent mud will be stored in HDPE lined pit.

4.6 Waste Management Plan

- Use of low toxicity chemicals for the preparation of drilling fluid.
- Management of drill cuttings, waste drilling mud, waste oil and domestic waste, wastewater in accordance with Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB as modified in 2005.
- The hazardous waste (waste and used oil) will be managed in accordance with Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2016.
- The kitchen waste will be disposed in nearest municipal/village dumping site on a daily basis through approved waste handling contractors.
- •The sewage generated will be treated through septic tank and soak pit system.
- •Used batteries will be recycled through the vendors supplying lead acid batteries as required under the Batteries (Management & Handling) Rules, 2001.
- The drilling cuttings pit will be bunded and kept covered using tarpaulin sheets during monsoon.



4.7 Wildlife Management Plan

- Movement of heavy vehicles will be restricted at night time, especially if access roads pass though forest areas, as most of the mammals movement occurs during night;
- Noise levels at the drill siteswill be controlled through selection of low noise generating equipment and installation of sufficient engineering controls viz. mufflers, silencers etc.
- No temporary electric supply connection line from the grid will be laid for the proposed project activity. All electric requirements will be supplied from the internal DG sets.
- OIL will have to take Forest Clearance from MoEFCC for development of drill sites, access roads and laying of pipeline within forest areas.

4.8 Road Safety & Traffic Management Plan

- The condition of roads and bridges identified for movement of vehicles and drilling rig will be assessed and if required strengthened by OIL to ensure their safe movement.
- Precautions will be taken by the contractor to avoid damage to the public access routes including highways during vehicular movement.
- Traffic flows will be scheduled wherever practicable during period of increased commuter movement.

4.9 Occupation Health & Safety Management Plan

- All machines to be used in the construction will conform to the relevant Indian Standards (IS) codes, will be kept in good working order, will be regularly inspected and properly maintained as per IS provisions and to the satisfaction of the site Engineer.
- Hazardous and risky areas, installations, materials, safety measures, emergency exits, etc. shall be appropriately marked.

4.10 Management of Social issues and concerns

- People from adjoining areas especially given job preference through local contractors according to the skill sets possessed.
- Prior to the commencement of the proposed activity, a consultation program will be conducted by
 OIL with the target groups and local authorities. The primary objective of such consultation will be to
 share with the concerned villagers/stakeholders the objective of the proposed project associated
 impacts and their mitigation.
- OIL will give more emphasis and priority on periphery development, development of health facilities and provision for drinking water facility as per Corporate Social Responsibility (CSR) Plan.
- The drill sites would be fenced and gates would be constructed so that the children are refrained from straying into the site.



4.11 Emergency Response Plan

- Drilling rig and related equipment to be used for drilling will be conformed to international standards specified for such equipment.
- Blow-out preventers and related well control equipment shall be installed, operated, maintained and tested generally in accordance with internationally recognized standards.
- Appropriate gas and leak detection system will be made available at each of the drill sites:
- Adequate fire-fighting equipment shall be provided at each drilling site.

The environmental mitigation measures and plans are presented in form of a matrix according to the sequential flow of activities in the project life cycle. The matrix focuses on strategies to be adopted for safe guard of the environment from possible impacts resulting out of the project activities. The strategies have further been detailed out as management procedures and programmes in subsequent sections.

The EMP helps establish the linkage between the activities environmental impacts and mitigation measures and presents the monitoring framework i.e. the Environmental Performance Indicator (EPI) No. as well as the Environmental Quality Indicator (EQI).



5.0 Environment Management Matrix

S Na	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
1. Presidrill	Physical Presence of drill site, rig and other machinery.		_	Temporary change in landscape	On completion of works (in phases) all temporary structures, surplus materials and wastes will be completely removed. Only structure required for safety purposes would be retained on the bare drill site.		Construction & Drilling	OIL/Contractor	Waste Management Plan
		1.2	Increase of illumination at night time due to installation of drilling setup	disturbance of the	Appropriate shading of lights to prevent scattering	Grievance records/ Consultation with Villagers	Construction & Drilling	OIL/Contractor	Management of social issues & concerns
		1.3			Preference used of local labour forces to the extent possible	Grievance records	Construction & Drilling	OIL/Contractor	Management of social issues & concerns
2.	Storage & Handling of Materials & Spoils	2.1	_		All loading and unloading activities to be carried out as close as possible to the storage facilities.	Site Inspection	Construction & Drilling	OIL/Contractor	Air Qualit Management
		2.2	Accidental spillage of oil & chemicals	contamination surface water	All spills to be reported and contained to prevent entry of spilled chemicals/fuels to any surface water body or drainage channel	spills/Community	Construction & Drilling	OIL/Contractor	Surface wate quality management plan, Wildlife Management Plan
				Potential impact on soil quality	All spills to be reported and remedial measures to be taken for clean-up of the spill.	Spills/Site	Construction & Drilling	OIL/Contractor	Spill management plan

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5 No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
3.		3.1	Emission of gaseous pollutants from vehicle during transportation of materials, spoils and machinery	air quality along	equipment will be regularly	I.	Construction &Drilling	OIL/Contractor	Air Quality Management plan
					Vehicle / equipment air emissions will be controlled by good practice procedures (such as turning off equipment when not in use);		N IXON		P I
					Vehicle / equipment exhausts observed emitting significant black smoke in their exhausts will be serviced/replaced		St. Toronto.	ii	, = 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
		3.2	Noise emission during transport of materials, spoils and machinery	deterioration in ambient noise	Undertake preventive maintenance of vehicles and machinery to reduce noise levels. Restriction on unnecessary use of horns by trucks and	Inspection/Recor ds of	Construction & DrillIng	Oll./Contractor	Noise Quality Management Plan
4.	Operation & maintenance of rig and associated machinery.	41	Emission of air pollutant from DG/GG sets	on air quality due	vehicle in settlement area Preventive maintenance of DG sets to be undertaken as per manufacturers schedule	Site Inspection/Records of repairs	Orilling	OIL/Contractor	Air Quality Management plan
		4.2	Emission of Noise from DG/GG sets	increase of	All workers working near high noise generating equipment to be provided	_	Drilling	OIL/Contractor	Noise Quality Management Plan and

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S No	Activity		Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
					work place noise level	with Personal Protective equipment				Occupational Health & Safety Management Plan
		-		-		Preventive maintenance of machinery to be undertaken as per manufacturers				
						schedule				
		44, 				Install sufficient engineering control (mufflers) to reduce noise level at source				
			4.3	Emission of noise from operation of the rig	increase of	All workers working near high noise generating equipment to be provided with Personal Protective equipment		Drilling of Wells	OIL/Contractor	Noise Quality Management Plan and Occupational Health & Safety Management Plan
				*		Preventive maintenance of machinery to be undertaken as per manufacturers schedule				
			4:4	Abstraction of ground Water for project usage	,	Optimize use of water during drilling operations	Record Keeping and Auditing	Construction & Drilling	OIL/Contractor	None
		4		Noise from mud pump during preparation of drilling mud	increase of	Preventive maintenance of machinery to be undertaken as per manufacturers schedule		Drilling of Wells	OIL/Contractor	Noise Quality Management Plan and Occupational Health & Safety Management

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S No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
					All workers working near high noise generating equipment to be provided with Personal Protective equipment				Plan
	-	4.6	Accidental spillage of chemicals during preparation drill mud	Contamination of soil resulting loss of soil living organism	Manage spills of contaminants on soil	Records of spills	Drilling of Wells	OIL/Contractor	Spill Management plan
		4.7	Accidental spillage of chemicals during preparation drill mud	on surface water	All spill to be contained so that it does not reach any surface water body or drainage channels		Drilling of Wells	OIL/Contractor	Surface water quality management plan
5.	Operation & maintenance of Vehicles	5.1	Emission of Noise from vehicles	increase of noise	Preventive maintenance of vehicles to be undertaken as and when required		Construction & Drilling	OIL/Contractor	Noise quality management plan
		5.2	Emission of gaseous air pollutant from vehicles	deterioration air	Preventive maintenance of vehicles to be undertaken as and when required	Inspection/Records of	Construction & Drilling	OIL/Contractor	Air quality management plan
		5.3	Spillage of fuels & lubricants from vehicles	soil resulting loss	Adopt best practices e.g. use pumps and dispensing nozzle for transfer of fuel, use of drip trays. Etc.	Inspections/Audit	Construction & Drilling	OIL/Contractor	Spill Management plan
				impact on surface water quality and	The drainage system on site to be provided with Sedimentation tank and Oil-	Site Inspection/Audits	Drilling	OIL/Contractor	Surface water quality management

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5 Na	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
				aquatic ecosystem	water Separator to prevent contamination especially oil and grease from being carried off by runoff.				plan and Spil Management plan
6.	Casing & cementing of well	6.1	Noise from machinery during preparation of cement slurry	increase of	Install sufficient engineering control on equipment and machineries (like mufflers in DG sets) to reduce noise and vibration emission levels at source, carry out proper maintenance and subject them to rigid noise and vibration control procedures.		Drilling of Wells	OIL/Contractor	Noise quality management plan
		6.2	Loss of drilling mud and cement slurry during casing of well	contamination of	Proper engineering controls during cementing operation to prevent migration of drilling mud and cement slurry into ground water aquifer		Drilling of Wells	OIL/Contractor	Ground water quality management plan
7.	Temporary storage, handling & disposal of process waste	7.1	Accidental spillage of process waste (unused cement slurry, return mud & drill cuttings) at the temporary storage site	contamination of soil and ground	_	Drilling and Decommissioning Phases	_	OlL/Contractor	Ground water quality management plan
		7.2	temporary storage site	water quality and	All Temporary waste storage area will have proper bunds to prevent any escape of contaminated runoff	Site Inspection and Record keeping	Drilling and Decommissioning Phases	OIL/Contractor	Surface water quality management plan and Spill Management
		i Apr			Ensure that any runoff from such temporary storage area				plan

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5 No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
					are channelized into ETP				
		7.3		soil resulting In loss of soil living	Dispose process waste and domestic waste as per regulation/ best practices Dispose debris and waste in designated areas and as per plan to prevent degradation of land		Construction & Drilling	OIL/Contractor	Waste Management Plan and Spil Management plan
		7.4	Accidental leakage/spillage of oils and lubricants from temporary storages	surface water resulting in deterioration of surface water	All chemical and fuel storage areas will have proper bunds so that contaminated run-off cannot escape into the storm-water drainage system. The waste pits (waste water and drill cuttings) will be bounded and covered by tarpaulin sheet to prevent mixing of runoff water with waste water and leachate from waste pit and also reduce the volume of waste water.		Construction & Drilling	OIL/Contractor	Waste Management Plan and Spill Management plan
		7.5	Disposal/spillage of spent oils & lubricants into environmental media	soil resulting loss	Ensure recycling of spent oil & lubricant through authorized dealer	Site Inspection	Construction & Drilling	OIL/Contractor	Waste Management Plan and Spill Management plan

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Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
			ecosystem					
	7.6		contamination of	through authorized waste recycler		Construction & Drilling	OIL/Contractor	Waste Management Plan and Spi Management plan
	7.7	Offsite disposal of metallic, packing, scrap	Localized visual impacts		Site Inspection and Record Keeping	Construction & Orilling	OIL/Contractor	Waste Management Plan
		China section and an appropriate	localized	to ensure complete		Construction & Drilling	OIL S& E Teamand Drilling team	Waste Management Plan
materials (equipment,	9.1	Accidental spillage during storage and handling of materials	contamination of soil & ground	especially for fuel & lubricant, chemical,	Site Inspection	Construction & Drilling	OIL/Contractor	Spill Management plan
fuel)			Safety concerns for workers involved in	Personal protective equipment to be provided to	Site Inspection	Construction &Drilling	OIL/Contractor	Health and Safety Plan
	Testing & Flaring of natural gas Storage of materials (equipment, chemicals,	7.6 Testing & 8.1 Flaring of natural gas Storage of materials (equipment, chemicals,	7.6 Disposal of used battery & spent filters in environmental media 7.7 Offsite disposal of metallic, packing, scrap Testing & 8.1 Emission of air pollutants from flare stack at drill site Storage of materials (equipment, chemicals,	7.6 Disposal of used battery & spent filters in environmental media 7.7 Offsite disposal of metallic, packing, scrap Testing & 8.1 Emission of air pollutants from flare stack at drill site Storage of natural gas Storage of during storage and handling of materials (equipment, chemicals, fuel) Storage of materials (equipment, chemicals, fuel) Safety concerns for workers involved in	7.6 Disposal of used battery & spent filters in environmental media site disposal of metallic, packing, scrap impacts Testing & Flaring of natural gas Storage of materials (equipment, chemicals, fuel) Storage of materials (equipment, chemicals, fuel) Storage of materials (equipment, chemicals, fuel) Testing & Storage of materials (equipment, chemical) Testing a surface water boody Tenudater and surface wate	7.6 Disposal of used battery & spent filters in environmental media 7.7 Offsite disposal of metallic, packing, scrap Testing & 8.1 Emission of air politutants from flare stack at drill site. Testing of natural gas Storage of 9.1 Accidental spillage during storage and handling of materials (equipment, chemicals, fuel) Storage of materials Storage of materials Storage of 9.1 Accidental spillage during storage and handling of materials Storage of waste involving in handling of materials Ensure recycling of waste intrough authorized waste recycler and Record Keeping Site Inspection and Record Keeping Testing & 8.1 Emission of air politutants of the site inspection of Record Keeping Temporary Proper engineering controls to ensure complete combustion of gas Localized deterioration air quality (NOx, HC) Cocation of Flare stack to be chosen considering the sensitive receptors adjoining the site Storage of 9.1 Accidental spillage during storage and contamination of soil & ground waster Safety concerns for workers equipment to be provided to involved in workers involving in handling	2.6 Disposal of used battery & spent filters in environmental media spent filters in environmental media surface water body 2.7 Offsite disposal of metallic, packing, scrap impacts Testing & 8. 1. Emission of air pollutants from flare stack at drill localized deterioration air quality (NOx, HC) Storage of natural gas Storage of materials (equipment, chemicals, fuel) Accidental spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel) Storage of spillage during storage and handling of materials fuel spillage during storage and handling of materials for workers spillage equipment to be provided to involved in workers involving in handling to spillage equipment to be provided to involved in workers involving in handling to spillage equipment to be provided to involved in workers involving in handling to spillage equipment to be provided to involved in workers involving in handling to spillage to construction & Drilling to spillage equipment to be provided to involved in workers involving in handling to spillage to construction & Drilling to spillage equipment to be provided to involved in workers involving in handling to spillage to construction & Drilling to spillage to spillag	7.6 Disposal of used battery & spant filters in environmental media 7.7 Offsite disposal of metallic, packing, scrap impacts 8 8.1 Emission of air pollutants from flare stack at drill stite 7.7 Iffsite disposal of metallic, packing, scrap 7.8 Emission of air pollutants of matural gas 8 8.1 Emission of air pollutants of thorough authorized waste shody 7.7 Iffsite disposal of metallic, packing, scrap 8 8.1 Emission of air pollutants of the properties of matural gas 8 9.1 Emission of air pollutants of the properties of matural gas 8 1 Emission of air pollutants of the properties of the propert

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No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
10.	Technical Emergencies	10.1	Probability of accidental leakage of gas/ liquid hydro-carbons due to failure of safety devices	impact on	Proper engineering controls to prevent leakage of sour gases Obtain an early warning of emergency conditions so as to prevent a negative impact on personnel, the environment, and assets Safeguard personnel to prevent injuries or loss of life by either protecting personnel from the hazard and/or evacuating them from the facilities Minimize the impact of such an event on the environment and the facilities by mitigating the potential for escalation and, where possible, containing the release Develop evacuation procedures to handle emergency situations.	Site Inspection	Drilling	Oll./Contractor	Emergency Response Plan
11.	Dismantling of rig & associated machinerles	11.1	dismantling of rig		All noise generating activities will be restricted during day	Site Inspection	Well Decommissioning Phase	OIL/Contractor	Noise qualit management plan
		11.2	Generation of waste during dismantling of rig	Temporary visual impacts	Storage of waste in designated areas only recyclable waste should be recycled through authorized	Site Inspection	Well Decommissioning Phase	OIL/Contractor	Waste Management Plan

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5 No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
					water recycler				
		11.3	Disposal/spillage of spent oils &lubricants into environmental media	_	contaminants on soil	Site Inspection and Record keeping	Well Decommissioning Phase	OIL/Contractor	Waste Management Plan
				deterioration of surface water quality and aquatic ecosystem					
12.	Transportation of drilling facilities	12.1		localized deterioration of air quality due to	Vehicle / equipment air emissions will be controlled by good practice procedures (such as turning off equipment when not in use); and	and Record	_	OIL/Contractor	Air qualit management plan
					Vehicle / equipment exhausts observed emitting significant black smoke in their exhausts will be				
					serviced/ replaced				
		12.2	Fugitive emissions due to re-entrainment of dust during transport of drilling facilities		Approach road to be sprinkled daily with water	Site Inspection	Well Decommissioning Phase	OIL/Contractor	Air qualit management plan
		12.3	Emission of noise during transport of drilling facilities		Restrict all noise generating operations, except drilling, to daytime		Well Decommissioning Phase	OIL/Contractor	Noise qualit management plan

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S No	Activity	Ref	Aspect	Impact	Mitigation Measures	Manitoring	Timing/ Frequency	Responsible Party	Related Plans
-					Restriction on unnecessary				
					use of horns by trucks and				
					vehicle in settlement area				

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6.0 Summary and Conclusion

The EMP has been made to assess the potential significant adverse environmental effects due to the proposed construction and drilling activities.

Mitigation measures have been proposed as part of EMP to minimize adverse environmental impacts, if any. Risk assessment includes Jet Fire and Vapour Cloud Explosion for blowout of wells. The existing Emergency Management Plan of OIL will be extended to this project, strengthened as necessary and implemented in the event of any emergency arising due to above mentioned risks.

The present impact assessment study indicates that the overall impact from the proposed project will be short to medium term, reversible, localised and are not expected to contribute significantly to the surrounding environment. Also, with the implementation of the pollution control and strengthen the existing environment management measures, these anticipated impacts due to proposed site preparation and drilling operation and decommissioning activities of the proposed project will be mitigated. Summary of impact significance without mitigation measures and with mitigation measures is presented at the table below.

Summary of Impact Significance without and with Mitigation Measures

Impact	Impact significance without mitigation measures	Impact significance with mitigation measures
Aesthetic & visual	Moderate	Minor
Land Use	Negligible	(a)
Soil Quality	Moderate	Minor
Air Quality	Moderate	Minor
Noise Quality	Miljor	Moderate
Road & Traffic	Moderate	Minor
Surface Water Quality	Moderate	Moderate
Ground water resource	Minor	Minor
Ground Water Quality	Moderate	Minor
Terrestrial Ecology	Negligible	
	Minor	Minor
	Majer	Moderate
Aquatic Ecology	Moderate	Moderate
Livelihood & Income generation	Moderate	Moderate
Conflict with local people	Moderate	Moderate
Benefit to Local Enterprises	жовком	
Employment Generation	Hastina	
Occupational health & safety	Moderate	Minor
Community health & safety	Moderate	Minor

OIL will also ensure that the environmental performances of all the activities are monitored throughout execution of the project during site preparation, drilling and decommissioning phases. Monitoring will be carried out for ambient air quality, stack emission, noise quality, quality of treated effluents, surface and groundwater qualities, waste generated and disposed etc. and verified that they meet the prescribed standards. OIL will continue to report environmental performance and submit monitoring reports regularly to statutory authorities.



The effective management system coupled with monitoring of environmental components and efforts for continual improvements will result in satisfactory environmental performance of the proposed oil and gas drilling and development project.

THANKS YOU





Health Safety & Environment Department

P.O. DULIAJAN-786602, ASSAM. INDIA

Phone: 0374-2800542 Fax: 0374-2801796 Email: safety@oilindia.in

Ref. No.: S&E/E/21(B)/940

Date: 20.09.2023

To The Member Secretary, Pollution Control Board, Assam, Bamunimaidam, Guwahati- 781021.

Sub: Submission of Environmental Statement (Form-V) under Environment (Protection) Rules, 1986.

Sir,

With reference to the above subject, we are submitting herewith the Environmental Statement (Form-V) for the financial year ending 31st March, 2023 pertaining to the operations of Oil India Limited in the districts of Dibrugarh, Tinsukia, Sivsagar and Charaideo in Assam.

Thanking You,

Yours faithfully OIL INDIA LIMITED

(Ajit Chandra Haloi) Executive Director (HSE)

For Resident Chief Executive

Encl: As above.

Copy:

- 1. Regional Executive Engineer, Pollution Control Board Assam, Back Side of ASTC Bus Station, Chowkidinghee, Dibrugarh, PIN: 786001.
- 2. Executive Engineer, Regional Laboratory cum Office, Pollution Control Board Assam, Melachakar, Sibsagar, PIN: 785640.





FORM - V (See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH, 2023

PART - A

(i) Name and address of the owner/occupier of the industry operation or process.

OIL INDIA LIMITED P.O. DULIAJAN DIST. DIBRUGARH ASSAM -786602.

Note: Environmental Statement (Form – V) is pertaining to the operations of Oil India Limited in the districts of Dibrugarh, Tinsukia, Sivasagar and Charaideo in Assam.

(ii) Industry category: Red - Oil and gas extraction (on-shore extraction through drilling wells)

(iii) Production capacity - Units

OIL's production target is fixed as per the Memorandum of Understanding (MoU) with Ministry of Petroleum and Natural Gas, Govt. of India, which varies from year to year.

Production details during F.Y. 2022-23:

- Crude Oil: 3.114 MMT.
- Natural Gas: 2809.214 MMSCM
- **LPG:** 32,100 MT.

(iv) Year of establishment:

OIL INDIA LTD. was formed in 1961 as a joint venture with M/S. Burma Oil Company, UK and on 14th Oct. 1981, OIL became a fully owned Govt. of India Enterprise.

(v) Date of last Environmental Statement submitted: 20.09.2022.

<u>PART - B</u> WATER AND RAW MATERIAL CONSUMPTION

(I) Water consumption m³/d:

S.No	Purpose	Water Consumption (m ³ / day)
1.	Process & Cooling	14473.7
2.	Domestic	16038.63
	TOTAL	30512.33



Name of Products	Process water consumption per unit of product output		
	During F.Y. 2021-22	During F.Y. 2022-23	
(1)	(2)	(3)	
Hydrocarbon (Crude	1.12 m ³ /MT	1 m ³ /MT	
Oil, Natural Gas, LPG)	(Approx.)	(Approx.)	

(II) Raw material consumption

*Name of raw materials	Name of products	Consumption of raw material pe unit	
		During	During
		F.Y. 2021-22	F.Y. 2022-23

No raw materials are used as Oil India Limited is engaged in Exploratory and development drilling activities & production of Crude Oil and Natural Gas. However, chemicals such as Bentonite are used for preparation of Water based drilling mud.

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

(Parameter as specified in the consent issued).

Pollutants	Quantity of Pollutants Discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	NIL. There is no discharge	• Quality of ETP treated	No variation is observed.
	of pollutants from drilling locations and Production Installations. • Wastewater generated from drilling locations is treated in Effluent Treatment Plant (ETP) and reused back in the drilling operation. • The formation water generated after separation	water from the drilling locations is analyzed frequently. (Test report is enclosed as Annexure - 1).	All parameters of treated effluent and Formation water are within the permissible limits.



	treatment is pumped back to the underground formation (depth greater than 1600 m) through formation water disposal wells.	II)	
(b) Air	No major air pollutants are emitted from Oil & Gas exploratory and development drilling and production activities except Stack Gas emissions at drilling locations and Production Installations & Flaring at Oil Collecting Stations.	Ambient Air Quality (AAQ) monitoring is carried out frequently at drilling locations and Production Installations (Test report enclosed as	No variation is observed. All parameters of Stack Gas emissions and Ambient Air are within the permissible limits.

PART - D HAZARDOUS WASTES

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous	Category of Hazardous	Total Quantity generated	
Wastes	Waste as per Schedule - I of HW Rules, 2016	During F.Y. 2021-22	During F.Y. 2022-23
a) From process	S.No. 2.2 Sludge containing Oil	9943 MT	4671.52 MT
•	S.No. 5.1 Used or Spent Oil	60 KL	208 KL
	S.No. 33.1 Empty barrels/ containers/liners contaminated with hazardous chemicals/ wastes	41569 Nos.	26616 Nos.
	S.No. 33.2 Contaminated cotton rags or other cleaning materials	3.7 MT	6.19 MT
b) From pollution control facilities	S.No. 33.5 Chemical sludge from waste water treatment	2600 KL	120.84 KL



PART - E SOLID WASTES

Solid Wastes	Total Quantity		
	During F.Y. 2021-22	During F.Y. 2022-23	
(a) From process			
	23,000 m ³	27,000 m ³	
Drill Cuttings	(Approx.)	(Approx.)	
(b) From pollution control facilities	NIL		
(c)			
(1) Quantity recycled or re-utilized within	N/A		
the unit.			
(2) Sold	N/A		
(3) Disposed	N/A		

PART - F

PLEASE SPECIFY THE CHARACTERIZATION (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.

(I) Hazardous Wastes:

	Name of the Hazardous Waste	Quantity generated during F.Y. 2022-23	Disposal Practices
a)	Sludge containing Oil	4671.52 MT	Sent to Sludge Processing Plant for oil recovery followed by Bioremediation
b)	Used or Spent Oil	208 KL	Stored in barrels under covered shed and sold to authorized recyclers through auction
c)	Empty barrels/ containers/liners contaminated with hazardous chemicals/ wastes	26616 Nos	Sold to authorized recyclers through auction
d)	Contaminated cotton rags or other cleaning materials	6.19 MT	Bioremediation
e)	Chemical sludge from waste water treatment	120.84 KL	Disposed in HDPE lined pits



(I) Solid Wastes:

Name of the Solid Waste	Quantity generated during F.Y. 2022-23	Disposal Practices
a) Drill Cuttings	27,000 m ³ (Approx.)	Disposed in HDPE lined pits

PART - G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION

- Acoustic enclosures have been provided around all gensets to reduce noise levels.
- Recovery of drilling mud from drill cuttings by using a combination of Vertical Cutting Dryer (VCD) and a high-performance centrifuge.
- > Wastewater generated from drilling locations is collected in HDPE lined pits, treated in Effluent Treatment Plant (ETP) with Reverse Osmosis unit and the treated effluent is reused back in the drilling operation.
- > Formation water generated from Production Installations is treated in Effluent Treatment Plant (ETP) before disposal in the abandoned/ water disposal wells.
- > Processing of oily sludge for recovery of Crude oil and further treatment of sludge through Bioremediation.
- > Construction of central concrete pit for disposal of waste mud.
- > Treatment of Biomedical waste through incinerator.
- Plantation of 50,000 saplings was carried out at 8 nos. of abandoned OIL well sites.

PART - H

Additional measures/investment proposal for environmental protection, abatement of pollution, prevention of pollution.

- MoU with District Administration, Tinsukia for treating the legacy waste of Tinsukia Municipality through the process of Biomining.
- ➤ Proposal for construction of Community Sewage Treatment Plant (STP) at Duliajan.
- MoU with Digboi Forest division, Assam for carrying out afforestation in 100 Ha of degraded forest area.
- > MoU with IIT Guwahati to study the feasibility of using treated drill cutting as a building material.

PART - I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT.

